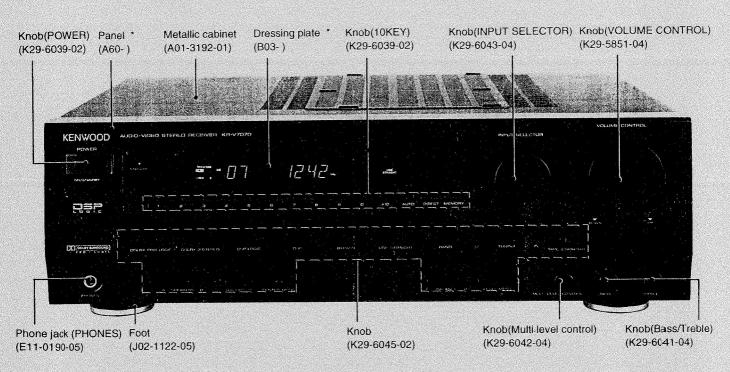
AUDIO-VIDEO STEREO RECEIVER

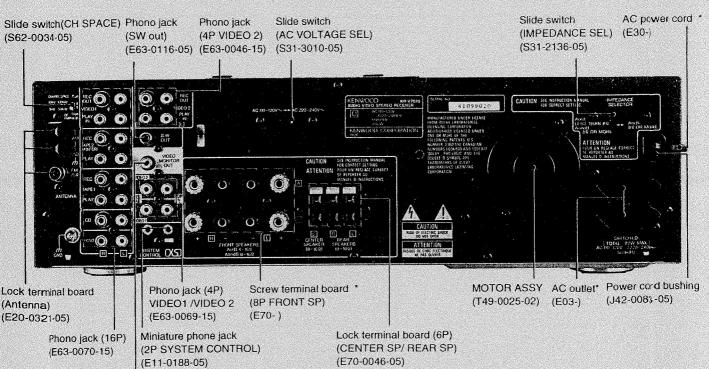
KR-V7070

SERVICE MANUAL

KENWOOD

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Phono jack (VIDEO MONITOR OUT) (E63-0130-05)

CONTENTS

REMOTE CONTROL UNIT	3
CONTROL UNIT	4
DISASSEMBLY FOR REPAIR	5
BLOCK DIAGRAM	7
CIRCUIT DESCRIPTION	9
ADJUSTMENT/AJUSTES	19
WIRING DIAGRAM	21

PC BOARD(Component side view)	
TUNER UNIT	23
MAIN AMP UNIT	25
AUDIO UNIT	29
DISPLAY UNIT	31
SCHEMATIC DIAGRAM	33
EXPLODED VIEW	52
PARTS LIST	54
SPECIFICATIONS	. BACK COVER

ACCESSORIES

FM indoor antenna.....(1) (T90-0801-05)



Antenna adaptor.....(1) AM loop antenna assy(1) Loop antenna stand (T90-0195-05)

(J19-3645-05)









Remote control unit.....(1) (A70-1009-05):RC-R0704 **BATTERY COVER:** (A09-0194-08)



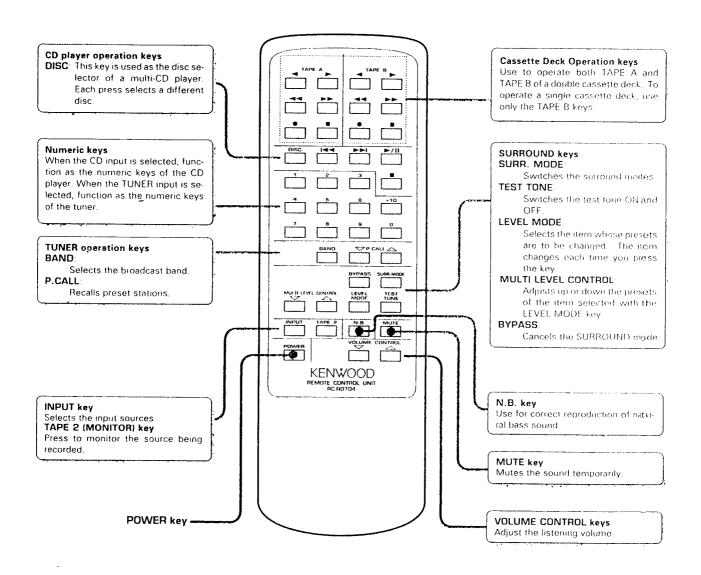
Batteries(R6/AA).....(2)



AC plug adaptor(1) (E03-0115-05):M only

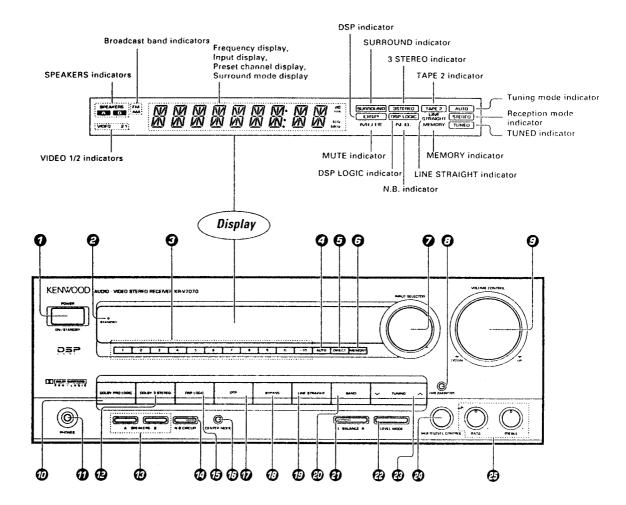


REMOTE CONTROL UNIT



Model: RC-R0704 Infrared ray system

CONTROL UNIT



OPOWER key

OSTANDBY indicator

Numeric keys

OAUTO key

ODIRECT key

Press for direct station tuning based on numerical input.

MEMORY key

Press to preset a station in the memory.

⊘ INPUT SELECTOR knob

Turn to select the input sources

TAPE 2(MONITOR) key

OVOLUME CONTROL knob

@DOLBY PRO LOGIC key

OPHONES jack

Used for headphone listening.

@DOLBY 3 STEREO key @SPEAKERS A/B keys

Press to select the A and/or B speaker systems.

ØN. B. CIRCUIT key

Use for correct reproduction of natural bass sound.

@DSP LOGIC key

OCENTER MODE key

Press to select the center mode of the DOLBY PRO LOGIC surround play.

ODSP key

ØBYPASS key

Press to cancel the surround modes.

©LINE STRAIGHT key

Press to reproduce the source with a higher sound quality.

@BAND key

Press to switch the broadcast band.

@BALANCE keys

Turn to adjust the volume balance between left and right.

@LEVEL MODE key

Selects the item whose presets are to be changed (in SURROUND MO) (E).

@TUNING keys

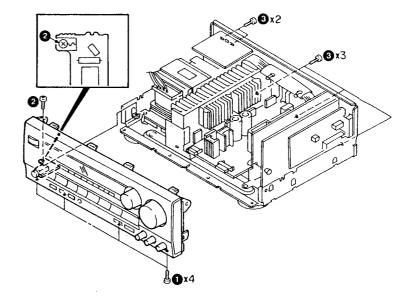
MULTI LEVEL CONTROL k nob

Adjusts up or down the presets of the item selected with the LEVEL MODE key (in SURROUND MODE).

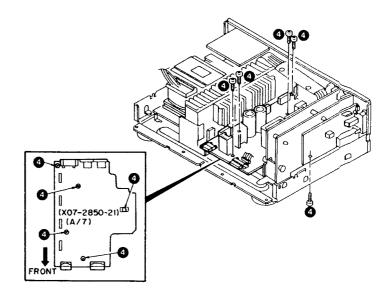
Tone control knobs

DISASSEMBLY FOR REPAIR

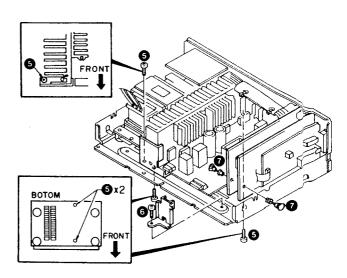
- 1. Remove the four front panel screws (1).
- 2. Remove the one phone jack PCB screw (2).
- 3. Remove the five rear panel screws (3).



4. Remove the five main PCB screws (4).

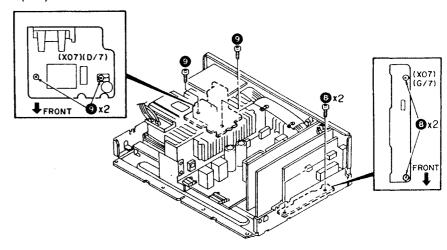


- 5. Remove the three heat sink mounting hardware screws(**9**).
- 6. Remove the one X09 BCB mounting hardware screw (**6**).
- 7. Remove the two push rivets (?).

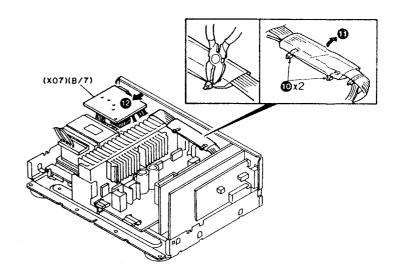


DISASSEMBLY FOR REPAIR

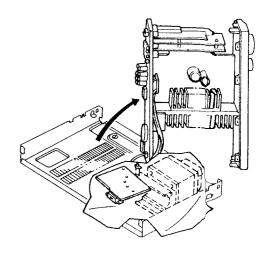
- 8. Remove the two (X07) (G/7) PCB screws (3).
- 9. Remove the two (X07) (D/7) PCB screws (9).



- 10. Cut the two wire bands (0).
- 12. Remove the (X07) (B/7) PCB (2).

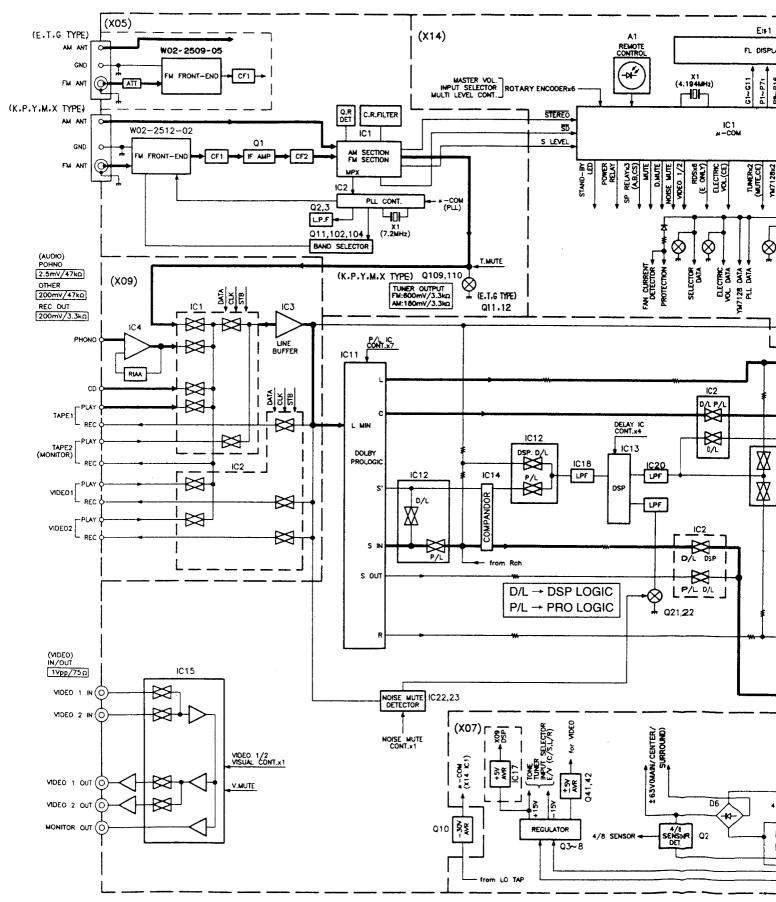


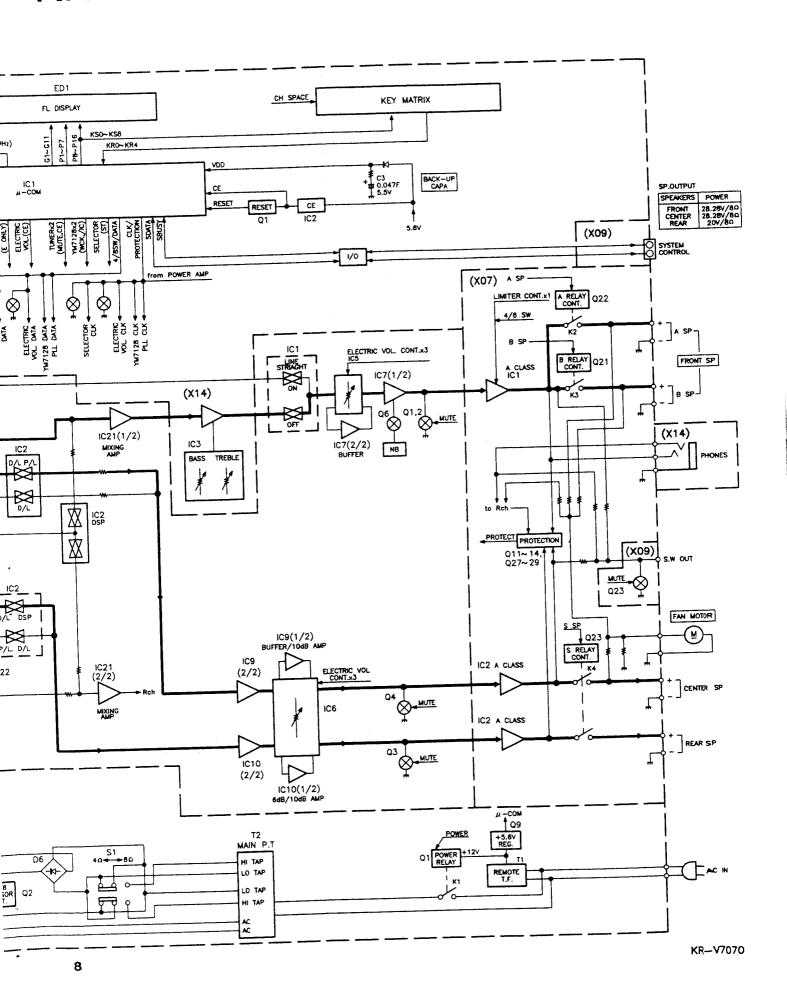
13. Stand the set with left side down ward. (Lay a cloth on top of the transformer.)



KI

BLOCK DIAGRAM





CIRCUIT DESCRIPTION

1. INITIAL STATE

(1) POWER OFF

2) AMP-related block	
 AUDIO SELECTOR 	TUNER
 VIDEO SELECTOR 	VIDEO 1
 SPEAKER A 	ON
 SPEAKER B 	OFF
 TAPE 2 MONITOR 	OFF
 LINE STRAIGHT 	OFF
 VISUAL FIX 	OFF
 N.B. CIRCUIT 	OFF
 BALANCE 	CENTER
VOLUME	-65 dB

(3) SURROUND-related block

SURROUND-related block	
• MODE	BYPASS (OFF)
 CENTER LEVEL 	0 dB ` ´
REAR LEVEL	0 dB
 CENTER MODE 	NORMAL
DSP MODE	ARENA
DSP LOGIC MODE	LARGE
• EFFECT LEVEL:	

KR-V8070

DSP	ARENA JAZZ CLUB	−2 dB −2 dB
	STADIUM	+2 dB
DSP LOC	GIC	0 dB

KR-V7070

DSP		0 dB
DSP	LOGIC	0 dB

• DELAY TIME KR-V8070

DSP	ARENA	10 msec
	JAZZ CLUB	20 msec
	STADIUM	30 msec
DSP LO	GIC	
	LARGE	20 msec
	SMALL	30 msec
PRO LO	GIC	20 msec

KR-V7070

DSP	40 msec
DSP LOGIC	40 msec
PRO LOGIC	20 msec

(4) Tune-related block

• BAND	FM
--------	----

• FREQUENCY Lower-limit value of FM

(87.50 MHz) **AUTO TUNING**

(AUTO STEREO) • P. CH DISPLAY -- CH

Preset memory

• Tuning MODE

Table 1-1 Initial Data List of Tuner

Table 1-1 Initial Data List of Tuner					<u> </u>	
Channel		K1 TYPE	BAND	K2 TYPE	BAND	E TYPE
01ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MH
02ch	FM	98.00MHz	FM	98.00MHz	FM	98.00MHz
03ch	FM	108.00MHz	FM	108.00MHz	FM	108.00MHz
04ch	AM	630kHz	AM	630kHz	AM	630kHz
05ch	AM	990kHz	AM	990kHz	AM	990kHz
06ch	AM	1440kHz	АМ	1440kHz	АМ	1,440kHz
07ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
08ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
09ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
10ch	FM	89.10MHz	FM	89.10MHz	FM	89.10MHz
11ch	FM	88.00MHz	FM	88.00MHz	FM	88.00MHz
12ch	FM	90.00MHz	FM	90.00MHz	FM	90.00MHz
13ch	FM	97.50MHz	FM	97.50MHz	FM	97.50MHz
14ch	FM	98.50MHz	FM	98.50MHz	FM	98.50MHz
15ch	FM	106.00MHz	FM	106.00MHz	FM	106.00MHz
16ch	AM	530kHz	AM	530kHz	АМ	531kHz
17ch	AM	1000kHz	ΑM	1000kHz	AM	999kHz
18ch	АМ	1700kHz	AM	1610kHz	AM	1602kHz
19ch	FM	96.30MHz	FM	96.30MHz	FM	96.30MHz
20ch	FM	107.00MHz	FM	107.00MHz	FM	107.00MHz
21CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
22CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
23CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
24CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
25CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
26CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
27CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
28CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
29CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
30CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
31CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
32CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
33CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
34CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
35CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
36CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
37CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
38CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
39CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
40CH	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz

CIRCUIT DESCRIPTION

2. BACKUP

This function holds the current state of the unit even if the AC power of the AV receiver is turned OFF.

(1) Operation outline

The backup state set command signal (CE) of a microcomputer is set low when the AC power is turned OFF. The microcomputer detects the signal and enters the stop state.

The microcomputer is reset when the AC power is turned ON. The data for backup state confirmation is checked by reset processing.

The microcomputer is initialized when the data was destroyed. If it is not destroyed, the microcomputer is started in the backup state.

- The data (16-bit) for backup state confirmation is written in a RAM area.
- The microcomputer is set to the STOP mode so as to save the power consumption.
- A backup state set command signal is detected by a timer interrupt of 1 msec.
- The backup guarantee period is set in a circuit.

(2) Backup state setting

- The data (16-bit)(01011010 01101001b = 5A69h) for backup state confirmation is written in a RAM area.
- Setting the special function port
 Set the input/output port of a serial interface to the
 serial interface operation stop mode. Set the FIP
 controller to the display OFF mode.
- Setting the microcomputer's internal special function Set all the interrupt enable flags to the disable state, respectively. Set the microcomputer to the STOP mode and stop the system clock oscillation of the microcomputer.

(3) Contents of backup data to be held

- POWER ON/OFF state
- VOLUME LEVEL data
- BALANCE LEVEL data
- N.B. ON/OFF
- SELECTOR MODE data
- SURROUND MODE data
- DELAY TIME data (PRO LOGIC, DSP, and DSP LOGIC)
- EFFECT LEVEL data (DSP and DSP LOGIC)
- CENTER LEVEL data (DSP LOGIC, PRO LOGIC, and 3 STEREO)
- REAR LEVEL data (DSP, DSP LOGIC, and PRO LOGIC)

- TUNER RECEIVING STATION FREQUENCY data
- TUNER PRESET MEMORY data
- TUNER AUTO/MANUAL mode

3. PROTECTION

The protection state is entered when abnormality is detected during the POWER-ON sequence.

- The power and speaker are turned OFF when the abnormal state is detected during the POWER-ON sequence.
- The STANDBY LED blinks every 500 msec.
- The fluorescent display indicator goes OFF.

CIRCUIT DESCRIPTION

4. DESTINATION AND MODEL LIST

Table 4-1 Destination and Model List

	MODEL	KR-V8070	KR-V7070
UNCTION	DESTINATION	КРМХҮ	KPMXYET
AMP	DSP	00000	000000
	VISUAL FIX	00000	××××××
	K1	×O×××	×○×××××
TUNER	K2	000×0	000x0xx
	E1	××000	××0000
	E3 (RDS)	×××××	×××××00

○ :YES × :NO

5. DESTINATION LIST OF TUNER

Table 5-1 Destination List of Tuner

						Destina	ation DSW(X14-)	
Destination	BAND	Receive frequency range	channel space	1F	PLL reference frequency	DSW2	DSW1	DSW0
		ļ				P25	P24,28	P23
K1	FM	87.5MHz~108.0MHz	100kHz	10.7MHz	50kHz	0	0	0
	AM	530kHz~1700kHz	10kHz	450kHz	10kHz			
K2	FM	87.5MHz~108.0MHz	100kHz	10.7MHz	50kHz		*1	
	AM	530kHz~1610kHz	10kHz	450kHz	10kHz			
E1	FM	87.5MHz~108.0MHz	50kHz	10.7MHz	50kHz	0	1	1
	AM	531kHz~1602kHz	9kHz	450kHz	10kHz	7		
E3	FM	87.5MHz~108.0MHz	50kHz	10.7MHz	50kHz	1	0	1
	AM	531kHz~1602kHz	9kHz	450kHz	9kHz	7		

^{*1} Set as K2 for except when the data for destination description is K1, E1, and E3.

*** ATTENTION**

A SUB WOOFER output signal is output irrespective of SP selector switch (ASP and BSP) ON/OFF setting

The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50 kHz cannot be performed.

CIRCUIT DESCRIPTION

6. TEST MODE

6-1. TEST MODE OF MAIN UNIT

(1) Setting the test mode

The main unit is put into the test mode when the AC power is turned ON while pressing the "TUNING DOWN" key. The following state is obtained when the test mode of the main unit is set.

- The power is turned ON automatically.
- All the fluorescent display indicators and LEDs light. (The all-illuminated state is cleared by pressing any main unit key.)
- The backup state except when the power is turned ON and OFF is initialized.

(2) Canceling the test mode

Turn OFF the AC power.

(3) Tuner functions

- Preset channel call function
- 1) Calls channels 1 to 9 (keys 1 to 9) and channel 10 (key 0) when the 10 key is not operated.
- 2) Calls channels 11 to 19 (keys 1 to 9) and channel 20 (key 0) when the +10 key is operated once.
- 3) Calls channels 21 to 29 (keys 1 to 9) and channel 30 (key 0) when the +10 key is operated two times and calls channels 31 to 39 (keys 1 to 9) and channel 40 (key 0) when the +10 key is operated three times.
- 4) Shifts to the operation obtained when the +10 key is not operated if it is operated four times.
- All turn-off function

Turns OFF and ON all the LEDs cyclically using the "MULTI MODE" key. This function is executed only when the SELECTOR mode is set to TUNER. In states other than TUNER, the original function of this key is executed.

Mute signal output

No Selector MUTE (MUTE 1) control regulation is done whatever.

(4) AMP function

The original function of each key is executed when the SELECTOR mode is set to TUNER. The test mode operation is not performed in this case.

FRONT VOLUME setting

Sets the maximum value (0 dB) of the front volume using the "AUTO" key.

Sets the minimum value ($-\infty$ dB) of the front volume using the "TAPE2" key.

• BALANCE L/R setting

Sets the most left edge of the balance using the "BALANCE L" key.

Sets the center of the balance using the "MEMORY" key.

Sets the most right edge of the balance using the "BALANCE R" key.

TEST TONE operation

Uses the "DIRECT" key instead of the "TEST TONE" key.

MUTE signal output

Sets the analog muting to OFF at all times. No control is performed in this case. Sets the analog muting to ON in the same way as during normal operation when the front volume is set to the minimum value $(-\infty dB)$.

• Impedance 4/8 selection

No impedance 4/8 display appears in the normal state. Therefore, the SPEAKERS lamp of the fluorescent display indicator is turned ON and OFF in the test mode.

The SPEAKERS lamp is turned on when the impedance is 4.

The SPEAKERS lamp is turned off when the impedance is 8.

6-2. SERIAL TEST MODE

(1) Setting the serial test mode

The unit is put into the serial test mode when a serial code "TEST ON" is input during the power-on sequence.

In the 8-bit serial test mode, serial code 71H is input.

In the 16-bit serial test mode, serial code C27FH is input.

• In the serial test mode, all remote control keys and ordinary serial codes are disabled. Only the panel keys perform the same operation as usually.

(2) Canceling the serial test mode

- The serial test mode is canceled to return to the ordinary mode by inputting a "TEST OFF" code. After the ordinary mode was returned, the serial mode is returned to the state before the test mode is entered. The backup operation is not initialized.
- The serial test mode is also canceled when the AC power is turned OFF.

(3) Cautions

- The serial test code is prescribed as a 16-bit code only.
- The operations below are inhibited in the serial test mode.

Manual tuning up/down operation

Up/down selection in PTY selection mode

AF search in ATT ON state

The operations mentioned above cannot be guaranteed when they are performed in the serial test mode.

- An identical code is output when the setal test mode code is input.
- A TUNED ON/TUNED OFF code is only output.

CIRCUIT DESCRIPTION

(4) SERIAL TEST CODE LIST Table 6-1 Serial Test Code List

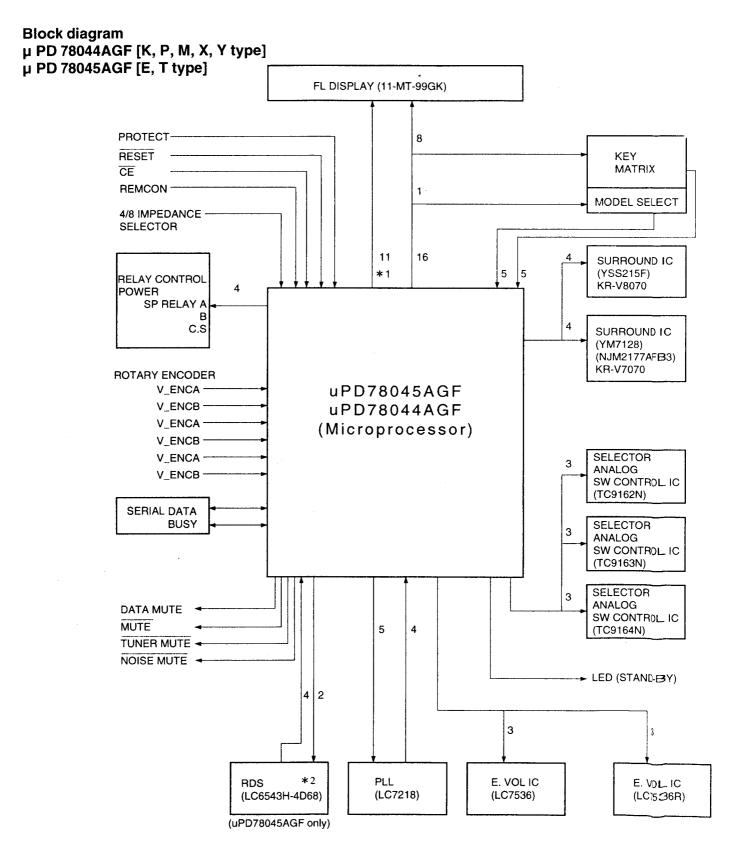
Serial test code	Description	Serial test code	Description
C200H	Turn OFF the power.	C298H	Perform the 8 key operation.
C201H	Turn ON the power.	C299H	Perform the 9 key operation.
C202H	Set the selector to PHONO.	C29AH	Perform the +10 key operation.
C203H	Set the selector to CD.	C29BH	Set the band FM.
C204H	Set the selector to TUNER.	C29CH	Set the band AM.
C205H	Set the selector to TAPE1.	C29EH	Perform the tuning DOWN operation.
C209H	Set the selector to VIDEO1.	C29FH	Perform the tuning UP operation.
C20AH	Set the selector to VIDEO2.	C2A0H	Set the TUNER MEMORY mode.
C20BH	Set the selector to VIDEO3.	C302H	Set the surround level to BYPASS.
C20CH	Set the selector to VIDEO4.	C303H	Set the surround level to PRO LOGIC.
C20DH	Turn ON the analog muting.	C304H	Set the surround level to 3 STEREO.
C20FH	Turn OFF the analog muting.	С309Н	Set the CENTER mode to NORMAL.
C216H	Set the line straight to OFF.	C30AH	Set the CENTER mode to WIDE BAND.
C217H	Set the line straight to ON.	С30ВН	Set the CENTER mode to PHANTOM.
C21EH	Set speaker A to OFF.	СЗОСН	Set the TEST TONE mode to OFF.
C21FH	Set speaker A to ON.	C30DH	Set the TEST_TONE mode to ON.
C220H	Set speaker B to OFF.	C312H	Set the center level to the minimum value.
C221H	Set speaker B to ON.	C313H	Set the center level to the middle value.
C228H	Set the TAPE2 monitor to OFF.	C314H	Set the center level to the maximum value.
C229H	Set the TAPE2 monitor to ON.	C315H	Set the rear level to the minimum value.
C23FH	Set the NB circuit to ON.	C316H	Set the rear level to the middle value.
C240H	Set the NB circuit to OFF.	C317H	Set the rear level to the maximum value.
C247H	Set the balance channel L to the maximum value.	C318H	Set the delay time to the minimum value.
C248H	Set the balance channels L and R to the center value.	C319H	Set the delay time to the middle value.
C249H	Set the balance channel R to the maximum value.	C31AH	Set the delay time to the maximum value.
C279H	Set all turn-off mode of FLs and LEDs to OFF.	C31BH	Set the effect level to the minimum value.
C27AH	Set all turn-off mode of FLs and LEDs to ON.	C31CH	Set the effect level to the middle value.
C27BH	Set all turn-on mode of FLs and LEDs to OFF.	C31DH	Set the effect level to the maximum value.
C27CH	Set all turn-on mode of FLs and LEDs to ON.	СЗЗАН	Set the DSP mode to ARENA.
C27DH	Initializes the system	СЗЗВН	Set the DSP mode to JAZZ CLUB.
C27EH	Set the serial test mode to OFF.	С33СН	Set the DSP mode to STADIUM.
C27FH	Set the serial test mode to ON (71H in 8-bit mode)	C34CH	Set the DSP LOGIC mode to LARGE.
C282H	Set the tuner muting to OFF.	C34DH	Set the DSP LOGIC mode to SMALL.
C283H	Set the tuner muting to ON.	C400H	Set the volume value to 0 dB.
C284H	Set the TUNER AUTO STEREO mode.	C401H	Set the volume value to -1 dB.
C285H	Set TUNER MONAURAL mode.	C402H	Set the volume value to -2 dB.
C286H	TUNED OFF code	C403H	Set the volume value to -3 dB.
C287H	TUNED ON code	C404H	Set the volume value to -4 dB.
C28FH	Set the TUNER DIRECT mode.	C405H	Set the volume value to -5 dB.
	Perform the 0 key operation.	C406H	Set the volume value to -6 dB.
C291H	Perform the 1 key operation.	C407H	Set the volume value to -7 dB.
C292H	Perform the 2 key operation.	0.4001.1	Set the volume value to -8 dB.
C293H	Perform the 3 key operation.	C409H	Set the volume value to -9 dB.
C294H	Perform the 4 key operation.		Set the volume value to -10 dB.

CIRCUIT DESCRIPTION

Serial test code	Description	Serial test code	Description
C295H	Perform the 5 key operation.	C40BH	Set the volume value to -11 dB.
C296H	Perform the 6 key operation.	C40CH	Set the volume value to -12 dB.
C297H	Perform the 7 key operation.	C40DH	Set the volume value to -13 dB.
C40EH	Set the volume value to -14 dB.	C42BH	Set the volume value to -43 dB.
C40FH	Set the volume value to -15 dB.	C42CH	Set the volume value to -44 dB.
C410H	Set the volume value to -16 dB.	C42DH	Set the volume value to -45 dB.
C411H	Set the volume value to -17 dB.	C42EH	Set the volume value to -46 dB.
C412H	Set the volume value to -18 dB.	C42FH	Set the volume value to -47 dB.
C413H	Set the volume value to -19 dB.	C430H	Set the volume value to -48 dB.
C414H	Set the volume value to -20 dB.	C431H	Set the volume value to -49 dB.
C415H	Set the volume value to -21 dB.	C432H	Set the volume value to -50 dB.
C416H	Set the volume value to -22 dB.	C433H	Set the volume value to -51 dB.
C417H	Set the volume value to -23 dB.	C434H	Set the volume value to -52 dB.
C418H	Set the volume value to -24 dB.	C435H	Set the volume value to -53 dB.
C419H	Set the volume value to -25 dB.	C436H	Set the volume value to -54 dB.
C41AH	Set the volume value to -26 dB.	C437H	Set the volume value to -55 dB.
C41BH	Set the volume value to -27 dB.	C438H	Set the volume value to -56 dB.
C41CH	Set the volume value to -28 dB.	C439H	Set the volume value to -57 dB.
C41DH	Set the volume value to -29 dB.	C43AH	Set the volume value to -58 dB.
C41EH	Set the volume value to -30 dB.	C43BH	Set the volume value to -59 dB.
C41FH	Set the volume value to -31 dB.	C43CH	Set the volume value to -60 dB.
C420H	Set the volume value to -32 dB.	C43DH	Set the volume value to -61 dB.
C421H	Set the volume value to -33 dB.	C43EH	Set the volume value to -62 dB.
C422H	Set the volume value to -34 dB.	C43FH	Set the volume value to -63 dB.
C423H	Set the volume value to -35 dB.	C440H	Set the volume value to -64 dB.
C424H	Set the volume value to -36 dB.	C441H	Set the volume value to -65 dB.
C425H	Set the volume value to -37 dB.	C442H	Set the volume value to -66 dB.
C426H	Set the volume value to -38 dB.	C443H	Set the volume value to -67 dB.
C427H	Set the volume value to -39 dB.	C444H	Set the volume value to -68 dB.
C428H	Set the volume value to -40 dB.	C445H	Set the volume value to -69 dB.
C429H	Set the volume value to -41 dB.	C446H	Set the volume value to -∞ dB.
C42AH	Set the volume value to -42 dB.		

CIRCUIT DESCRIPTION

7.Micro processer:μ PD 78044AGF (X14:IC1) μ PD 78045AGF

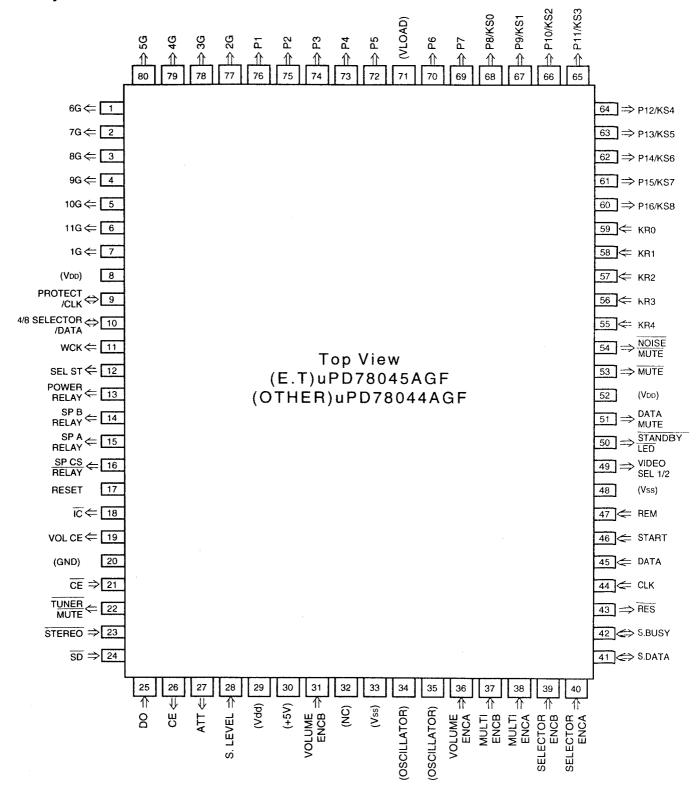


^{* 1} GRID to FL

^{*2} E3 Type (RDS feature installed) used RDS cync microprocessor (LC6543H-4D68).

CIRCUIT DESCRIPTION

Port layout



CIRCUIT DESCRIPTION

7.1 PIN FUNCTION

For pin numbers marked by an asterisk (*) the upper row is µPD78045AGF and the lower (☐)row is µPD78044AGF.

For pin	numbers marke	(□)row is µPD78044AGF			
Pin NO.	Pin name	Port I/O	Name	Description	Active
1	P94/FIP6	0	6G	FL grid 6	
2	P93/FIP5	0	7G	FL grid 7	
3	P92/FIP4	0	8G	FL grid 8	
4	P91/FIP3	0	9G	FL grid 9	
5	P90/FIP2	0	10G	FL grid 10	
6	P81/FIP1	0	11G	FL grid 11	
7	P80FIP0	0	1G	FL grid 1	
8	Vcc		V DD	Micro processor power supply	V-100-1
9	P27/ SCK0	1/0	PROTECT/CLK	IN:Protection detection OUT:Control IC clock	L:ON
10	P26/S00/SB1	1/0	4/8 SELECT/DATA	IN:Speaker impedance selector OUT:Control IC data	H:8 L:4
11	P25/SI0/SB0	0	WCK	DSP IC address/data discrimination signal (YSS215/YM7218)	H:ADDRESS L:DATA
12	P24/BUSY	0	SEL ST.	Selector IC data definition signal	H:ADDRESS L:DATA
13	P23/STB	0	POWER RELAY	Power relay control	H:ON
14	P22/ SCK1	0	SP B RELAY	Speaker B relay control	H:ON
15	P21/S01	0	SP A RELAY	Speaker A relay control	H:ON
16	P20/SI1	0	SP CS RELAY	Surround speaker relay control	H:ON
17	RESET	l l	RESET	Microprocesser reset	L:RESET ON
18	P74	0	IC	DSP IC reset control (YSS215/YM7218)	L:RESET ON
19	P73	0	VOL CE	Volume IC address/data CE	H:ADDRESS L:DATA
20	A Vss		GND	A/D power supply (GND)	
21	P17/AN17	1	CE	Back up detection	L:BACK UP ON
22	P16/AN16	0	TUNER MUTE	Tuner mute control	L:MUTE ON
23	P15/AN15	l	STEREO	Stereo signal detection	L:STEREO ON
24	P14/AN14	ı	SD	Synchronized signal detection	
25	P13/AN13	1	DO	IF count data (PLL DO)	
26	P12/AN12	0	CE (PLL)	PLL Chip enable control	H:OH
* 27	P11/AN11	0	ATT (RDS)	Attenuate control	H:ON
* 28	P10/AN10	. 1	S.LEVEL (RDS)	Signal level	H:ON
29	A Vcc		VDD	A/D power supply	
30	A Vref		+5V	A/D reference voltage	
31	P04/XT1	Į	VOLUME ENCB	Volume encoder input B	L:ON
32	XT2		NC		
33	Vss		Vss	Microprocesser power supply	
34	X1		osc	4.19MHz oscillator	
35	X2		osc	4.19MHz oscillator	
36	P37	ı	VOLUME ENCA	Volume encoder input A	L:ON
37	P36/BUZ	ı	MULTI ENCB	Multi level encoder input B	L:ON
38	P35/PCL	ı	MULTI ENCA	Multi level encoder input A	L:ON
39	P34/T12	1	SELECTOR ENCB	Selector encoder input B	L:ON
40	P33/T11	1	SELECTOR ENCA	Selector encoder input A	L:ON
41	P32/T02	I/O	S. DATA	8/16 bit system data	
42	P31/T01	I/O	S. BUSY	8/16 bit system busy	H:BUSY L:READY
* 43	P30/T00	0	RES (RDS)	RDS IC reset signal	L:RESET ON
* 44	P03/INTP3/C10	1	CLK (RDS)	RDS clock	

CIRCUIT DESCRIPTION

Pin NO.	Pin name	Port I/O	Name	Description	Active
* 45	P02/INTP2	ı	DATA (RDS)	RDS data	Active
* 46	P01/INTP1	ı	START (RDS)	RDS data start signal	L:START
47	P00/INTP0	ı	REM	Remote control input	
48	IC		Vss		
49	P72	OUT	VIDEO SEL 1/2	Video selector	H:V 1,4 L:V 2,3
50	P71	OUT	STANDBY LED	Standby LED	L:LED ON
51	P70	OUT	DATA MUTE	Data mute	H:MUTE ON
52	Vcc		Vcc	Microprocesser power supply	
53	P127/FIP33	OUT	MUTE	Analog mute control	L:MUTE ON
54	P126/FIP32	OUT	NOISE MUTE	Noise mute control	L:MUTE ON
55	P125/FIP31	IN	KR4	Key return 4	
56	P124/FIP30	IN	KR3	Key return 3	
57	P123/FIP29	IN	KR2	Key return 2	
58	P122/FIP28	IN	KR1	Key return 1	
59	P121/FIP27	IN	KR0	Key return 0	
60	P120/FIP26	OUT	P16/KS8	FL segment 16/key scan 8	
61	P117/FIP25	OUT	P15/KS7	FL segment 15/key scan 7	
62	P116/FIP24	OUT	P14/KS6	FL segment 14/key scan 6	
63	P115/FIP23	OUT	P13/KS5	FL segment 13/key scan 5	
64	P114/FIP22	OUT	P12/KS4	FL segment 12/key scan 4	
65	P113/FIP21	OUT	P11/KS3	FL segment 11/key scan 3	
66	P112/FIP20	OUT	P10/KS2	FL segment 10/key scan 2	***************************************
67	P111/FIP19	OUT	P9/KS1	FL segment 09/key scan 1	
68	P110/FIP18	OUT	P8/KS0	FL segment 08/key scan 0	
69	P107/FIP17	OUT	P7	FL segment 01	
70	P106/FIP16	OUT	P6	FL segment 02	
71	V load		V load	FL drive power supply	
72	P105/FIP15	OUT	P5	FL segment 03	
73	P104/FIP14	OUT	P4	FL segment 04	
74	P103/FIP13	OUT	P3	FL segment 05	
75	P102/FIP12	OUT	P2	FL segment 06	
76	P101/FIP11	OUT	P1	FL segment 07	
77	P100/FIP10	OUT	2G	FL grid 2	
78	P97/FIP9	OUT	3G	FL grid 3	
79	P96/FIP8	ОИТ	4G	FL grid 4	
80	P95/FIP7	OUT	5G	FL grid 5	

The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50 kHz cannot be performed.

CIRCUIT DESCRIPTION/ADJUSTMENT

8 KEY MATRIX

Table 8-1 Key Matrix List

KRTI	KR0	KR1	KR2	1/70	
KSCN	Kilo	KNI	NH2	KR3	KR4
KS0	7 (10KEY)	6 (10KEY)	N. B. CIRCUIT	PRO LOGIC	DIRECT
KS1	8 (10KEY)	5 (10KEY)	SP. B	LINE STRAIGHT	MEMORY
KS2	9 (10KEY)	4 (10KEY)	SP. A	BALANCE L	PTY *2
KS3	0 (10KEY)	3 (10KEY)	CENTER MODE	BALANCE R	AF *2
KS4	+10	2 (10KEY)	DSP		BAND
KS5		1 (10KEY)	DSP LOGIC		TUNER DOWN
KS6	AUTO/MANUAL	POWER	3 STEREO	VISUAL FIX *1	TUNER UP
KS7	DISPLAY *2			MULTI LEVEL MODE	TAPE 2
KS8	DSW0 *5	DSW1 *5	DSW2 *5	DSW3 *3	DSW4 *4

^{*1} For KR-V8070 only.

8.1 Model Discrimination List

 KS8 and KR3 are used as a DSW switch for model discrimination. Each data is shown in the table below. Each model is discriminated only during reset initialization simultaneously with the discrimination of the destination.

Table 8-2 Model Discrimination List

DSW	DSW3
Model	(D26)
KR-V8070	0
KR-V7070	1

 KS8 and KR4 are used for the operation selection of 8- or 16- bit serial data. The 8- and 16- bit serial data are selected only during reset initialization.

Table 8-3 8-/16- bit Selection

	DSW	DSW4
Serial cord	1	
8- bit serial		0
16- bit serial		1

ADJUSTMENT

ENGLISH (E, T TYPE)

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
	FMSECTION	SE	LECTOR:FM				<u> </u>
1	DISCRIMINATOR	(A) 98.0MHz 1kHz,±40kHz dev.(E,T type) 60dBµ(ANT input)	Connect a DC voltmeter between TP3 and TP4 (X05-)	AUTO or MONO 98.0MHz	1.3 (X05-)	OV	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHz dev. Pilot:±6kHz dev. (E,T type) 60dBµ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	(a)
AUI	DIO SECTION						L
<1>	IDLE CURRENT		(E) Connect a DC voltmeter across CP1(L) CP2(R) CP3(CENTER) CP4(REAR)	Volume:0	VR1(L) VR2(R) VR3(CENTER) VR4(REAR) (X07-)	22mV	(b)

^{*2} The destination is E3 type only. For another destination, there is no key. (RDS function)

^{*3} Used for description of each model.

^{*4} Used for operation selector of 8- or 16- bit serial data.

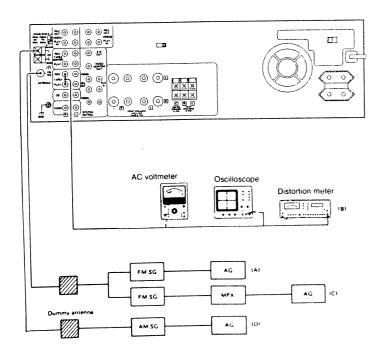
^{*5} Used for discrimination of the destination. (Refer to the Destination List of Tuner in Table 5-1.)

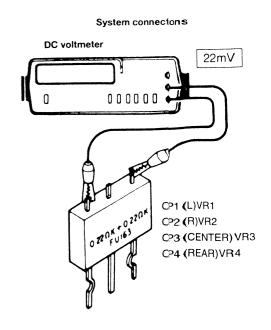
ADJUSTMENT/AJUSTES

ESPANÓL (E. T TYPE)

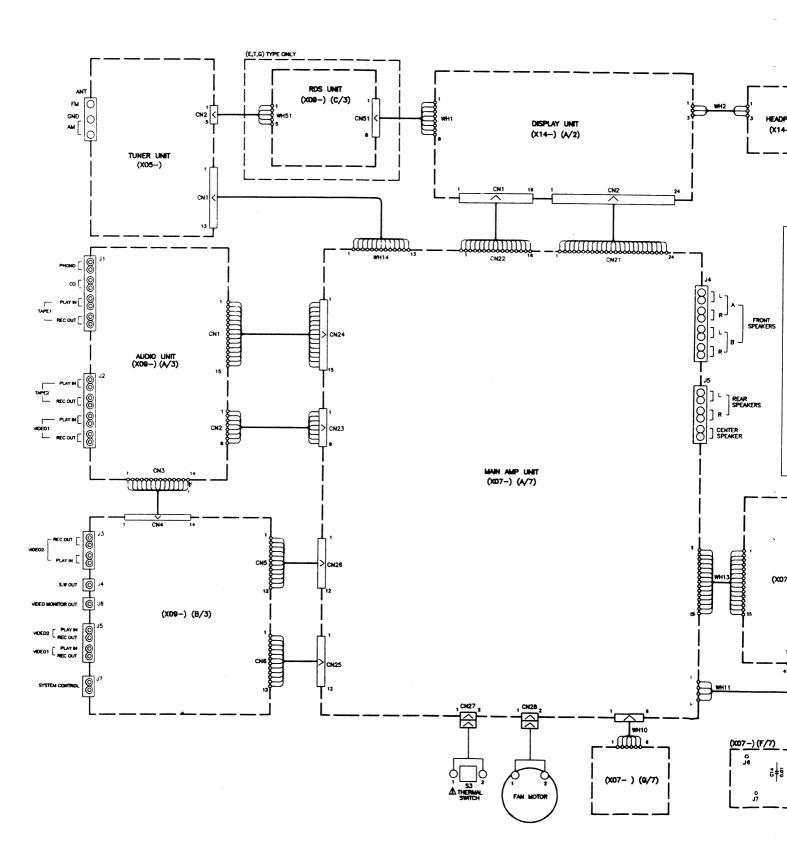
Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
S	ECCIÓN DE FM	SE	LECTOR;FM		· ·		·
1	DISCRIMINADOR	(A) 98.0MHz 1kHz,±40kHz dev.(E,T type) 60dBµ(Entrada de antena)	Conecte un voltíbetro de CC entre TP3 y TP4 (X05-)	AUTO or MONO 98.0MHz	1.3 (X05-)	0V	(a)
2	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz,±40kHz dev. Pilot:±6kHz dev. (E,T type) 60dBu(Entrada de antena)	(B)	AUTO 98.0MHz	IFT (W02-)	Distorsión mínima.	(a)
A	menos que se espec	cifique otra cosa, los contro	oles individuales deb	erán ajustrarse (de la forma sigu	fiente:	
	POWER:ON		TOR:PHONO				
1	OCIOSA CORRIENTE	-	Conecte un voltimetro de CC entre CP1(L) y CP2(R) y CP3(CENTER) y CP4(REAR)	Volume:0	VR1(L) VR2(R) VR3(CENTER) VR4(REAR) (X07-)	22mV	(b)

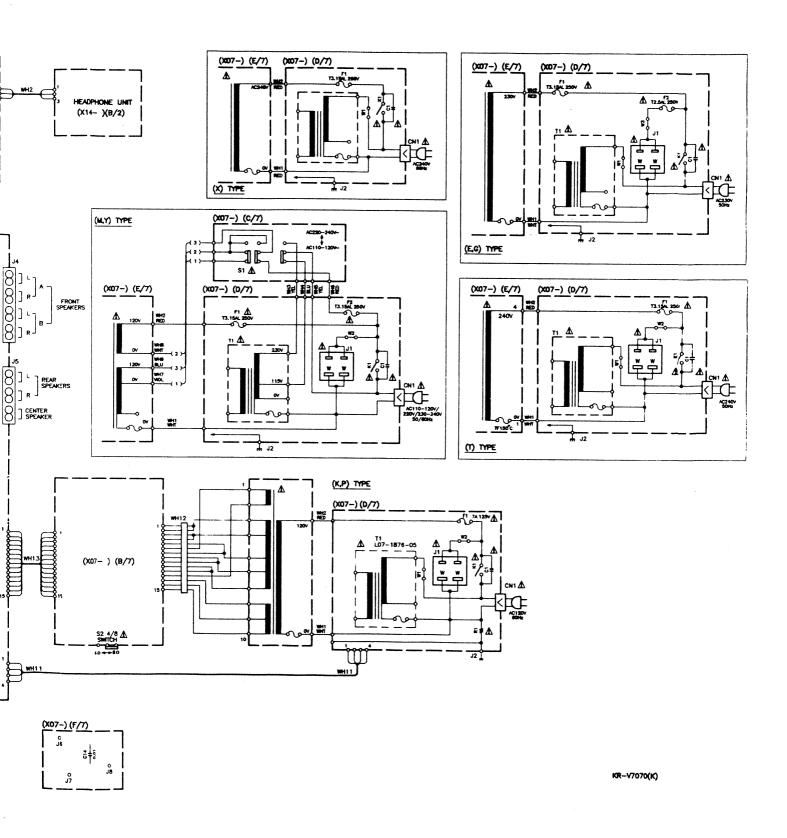
(a) (b)





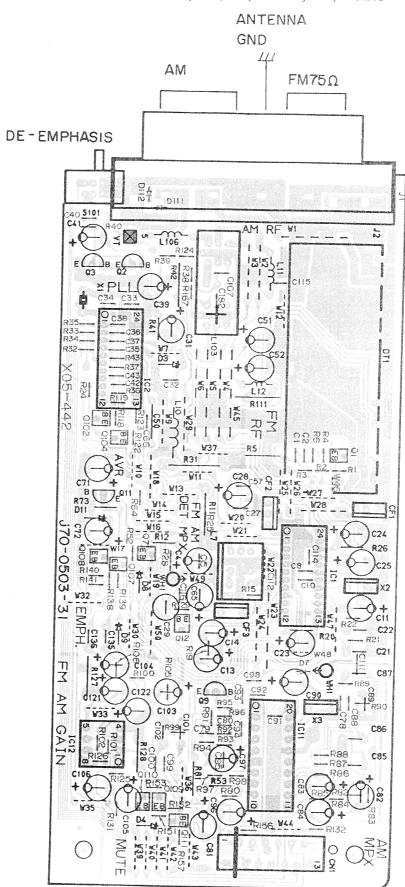
WIRING DIAGRAM





PC BOARD (Component side view)

TUNER UNIT (X05-4460-13):KS, PS, -23:YS, MS, -73:XS



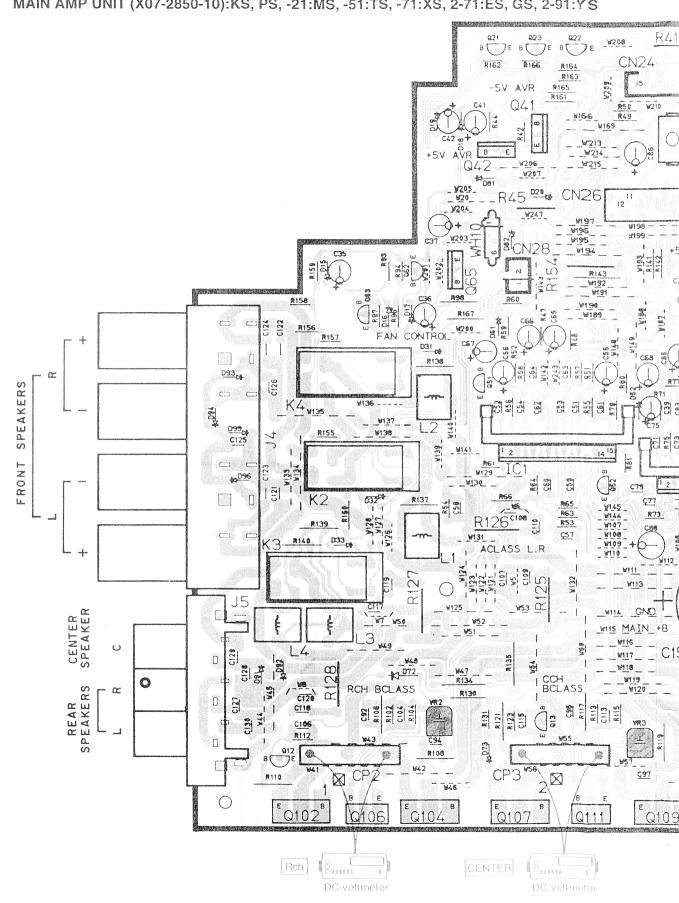
TUNER UNIT (X05-4532-70):TS, ES, GS

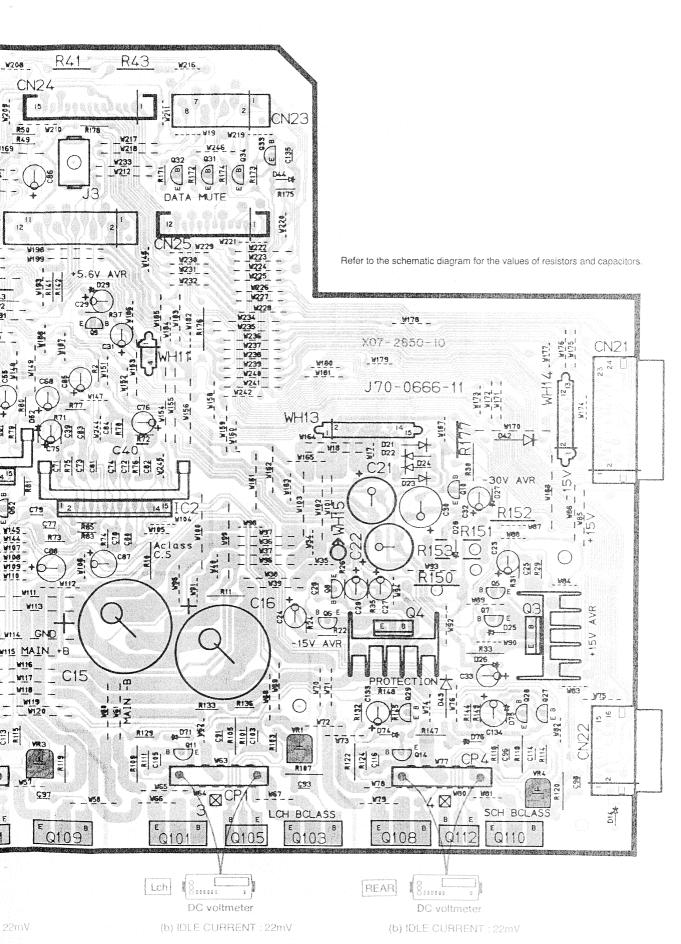
ANTENNA GND של FM 75Ω AM ANT D1 --L8 -- 1 D2 49 15 12 1 0-0670-2 JIRS3 & OIB WALLEY OF THE PROPERTY OF THE PROP 공유 11₈₄ OG5-CG2-C57-C57-R81-C15-10 DET (a) Detector:0V DC voltmeter C19 55 R23

Refer to the schematic diagram for the values of resistors and capacitors.

CNI

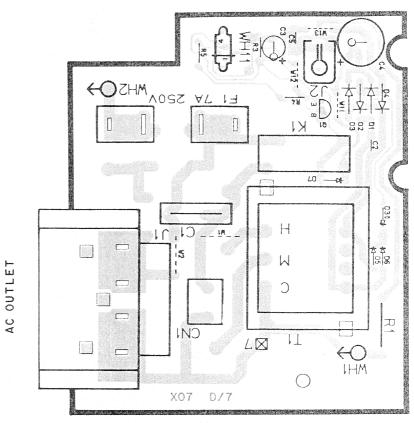
MAIN AMP UNIT (X07-2850-10):KS, PS, -21:MS, -51:TS, -71:XS, 2-71:ES, GS, 2-91:YS

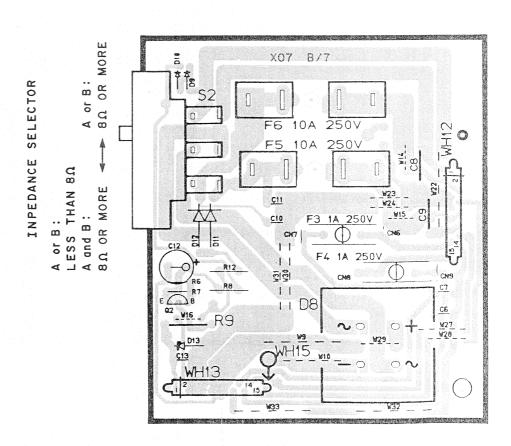


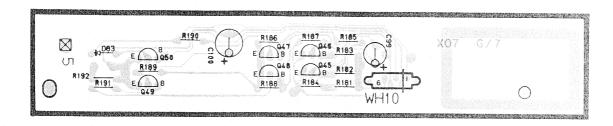


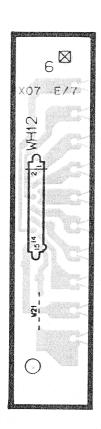
PC BOARD (Component side view)

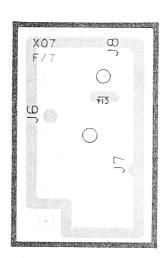
MAIN AMP UNIT (X07-2850-10):KS, PS, -21:MS, -51:TS, -71:XS, 2-71:ES, GS,

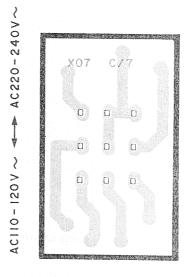








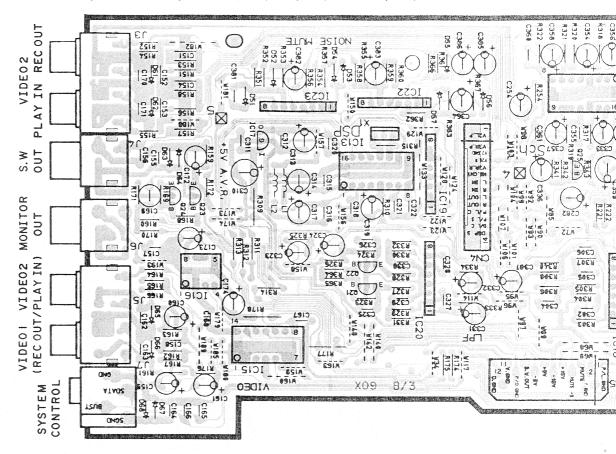


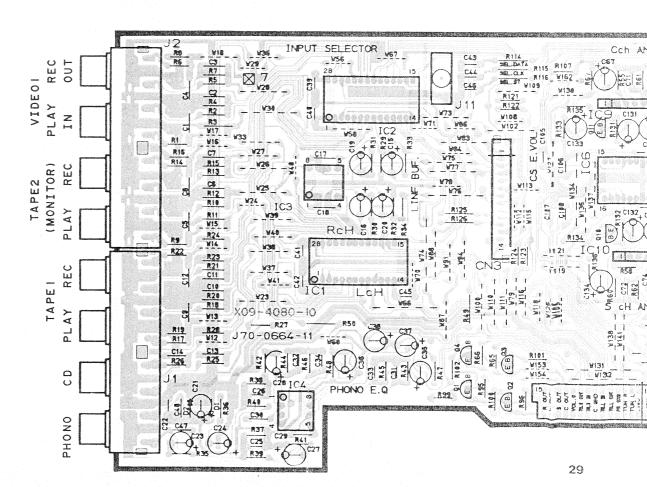


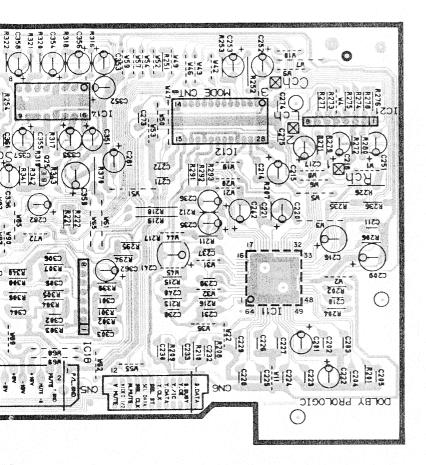
ΑO

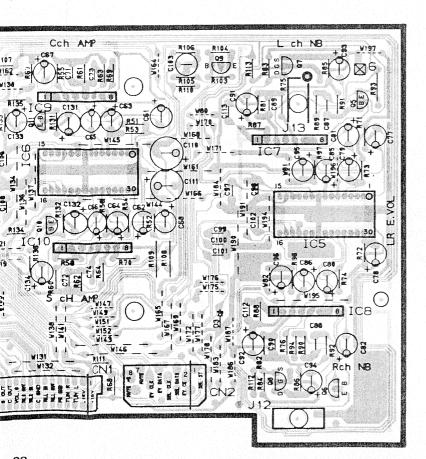
PC BOARD (Component side view)

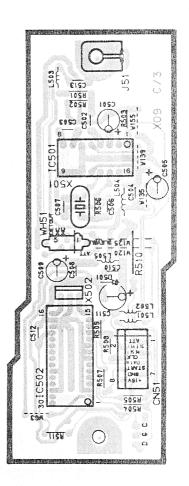
AUDIO UNIT (X09-4080-10):KS, PS, YS, MS, XS, 2-71:TS, ES, GS





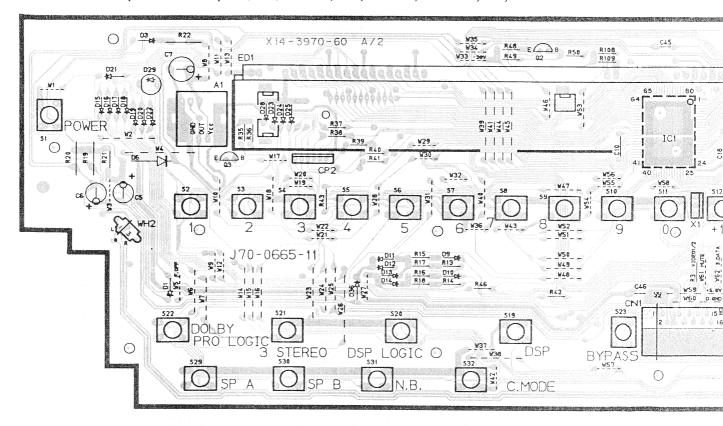


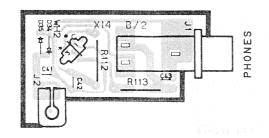




PC BOARD (Component side view)

DISPLAY UNIT (X14-3970-10):KS, PS, -21:YS, MS, -71:XS, 2-71:TS, ES, GS

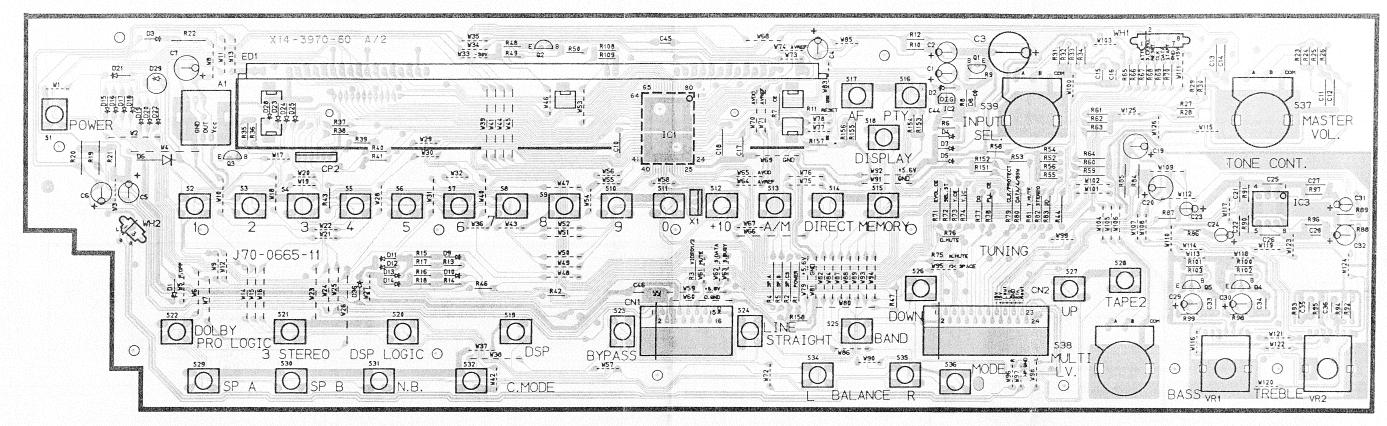




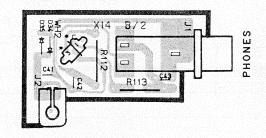
PC BOARD (Component side view)

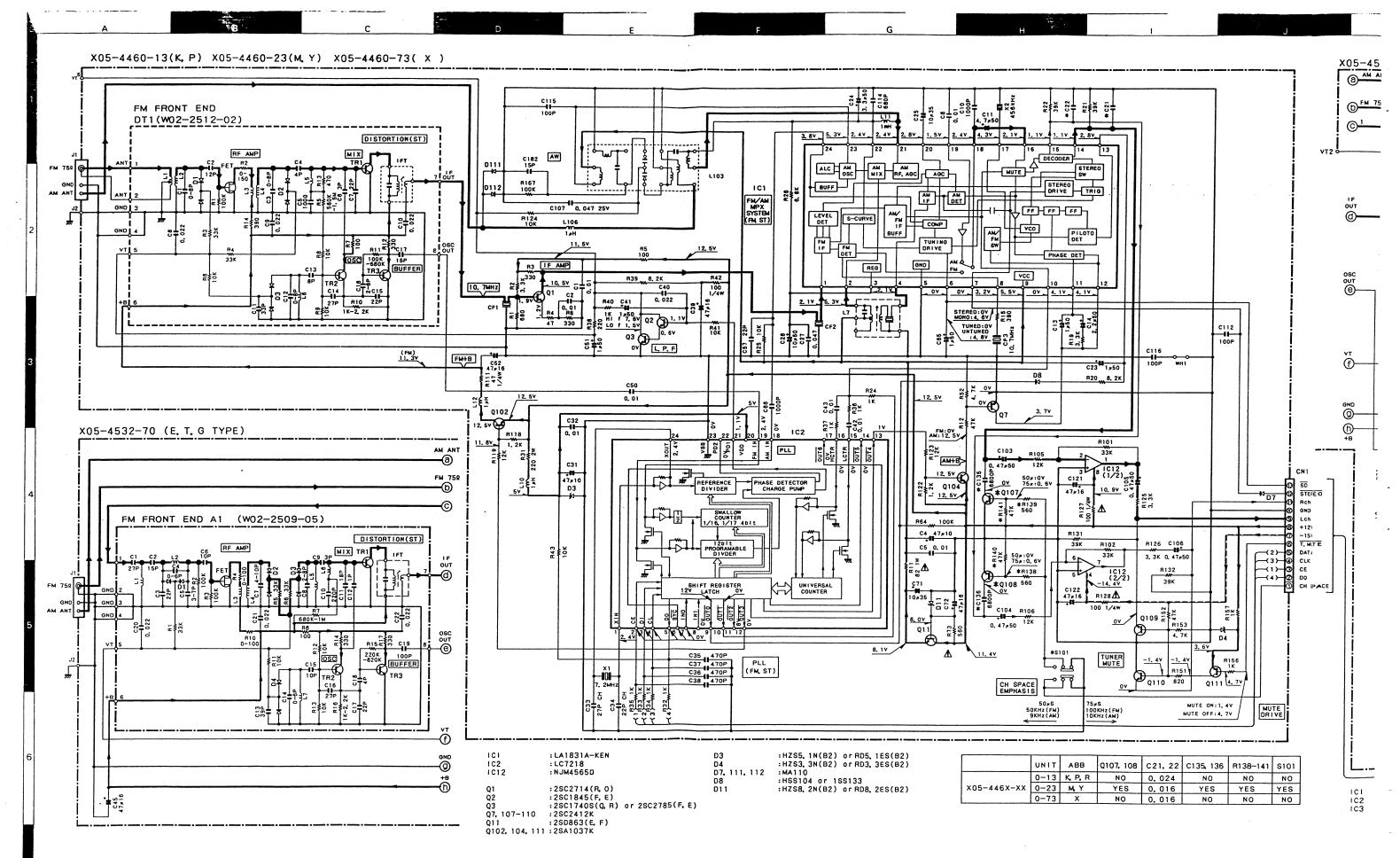
Δίξ

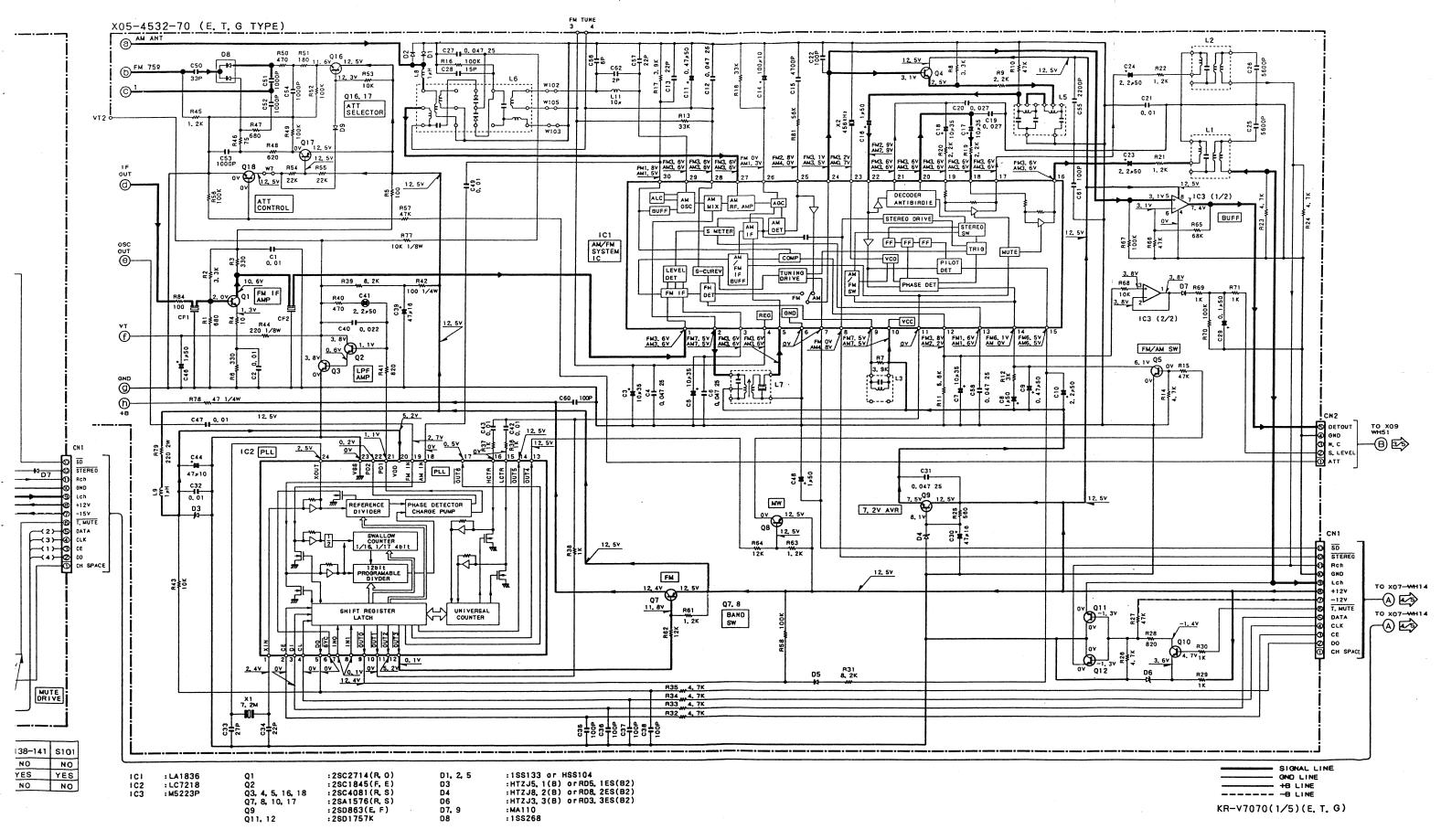
DISPLAY UNIT (X14-3970-10):KS, PS, -21:YS, MS, -71:XS, 2-71:TS, ES, GS



Refer to the schematic diagram for the values of resistors and capacitors,





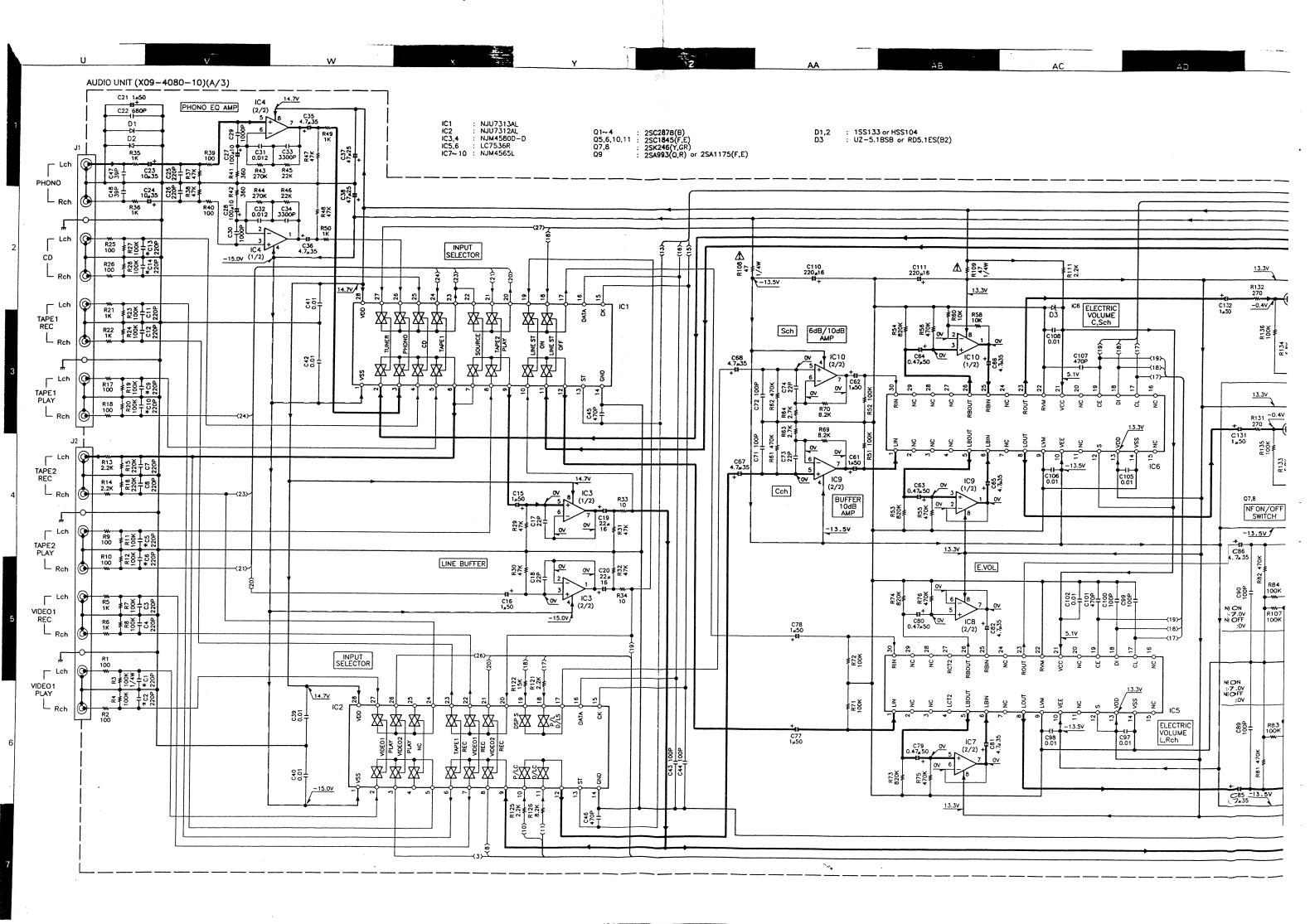


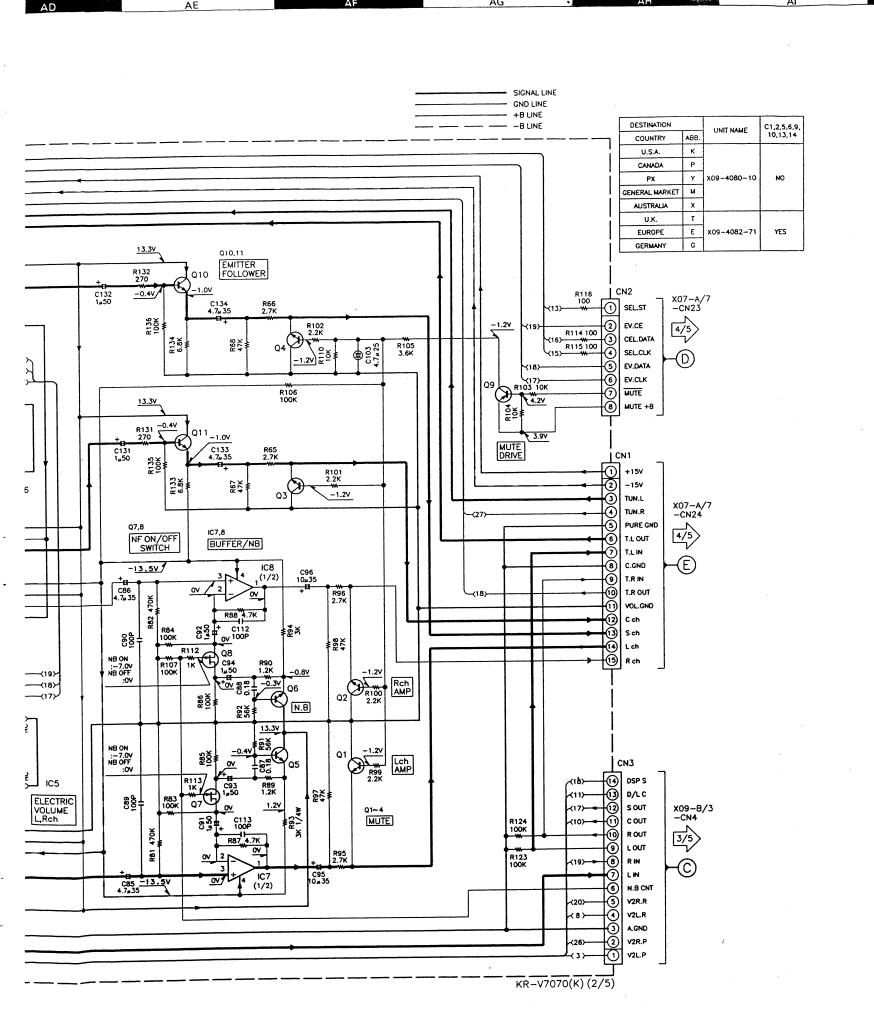
ed with a high impedance voltmeter. o variations between individual instruLes tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

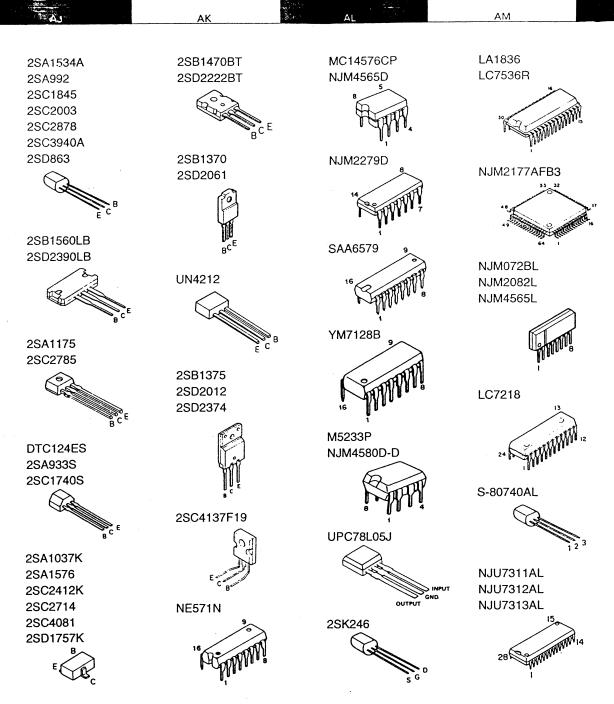
Die angegebenen Gleichspannungswerte wurden mit einem ho-chohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.









DC voltages are as measured with a high impetance voltmeter. Values may vary slightly due to variations betweenin-dividual instruments or/and units.

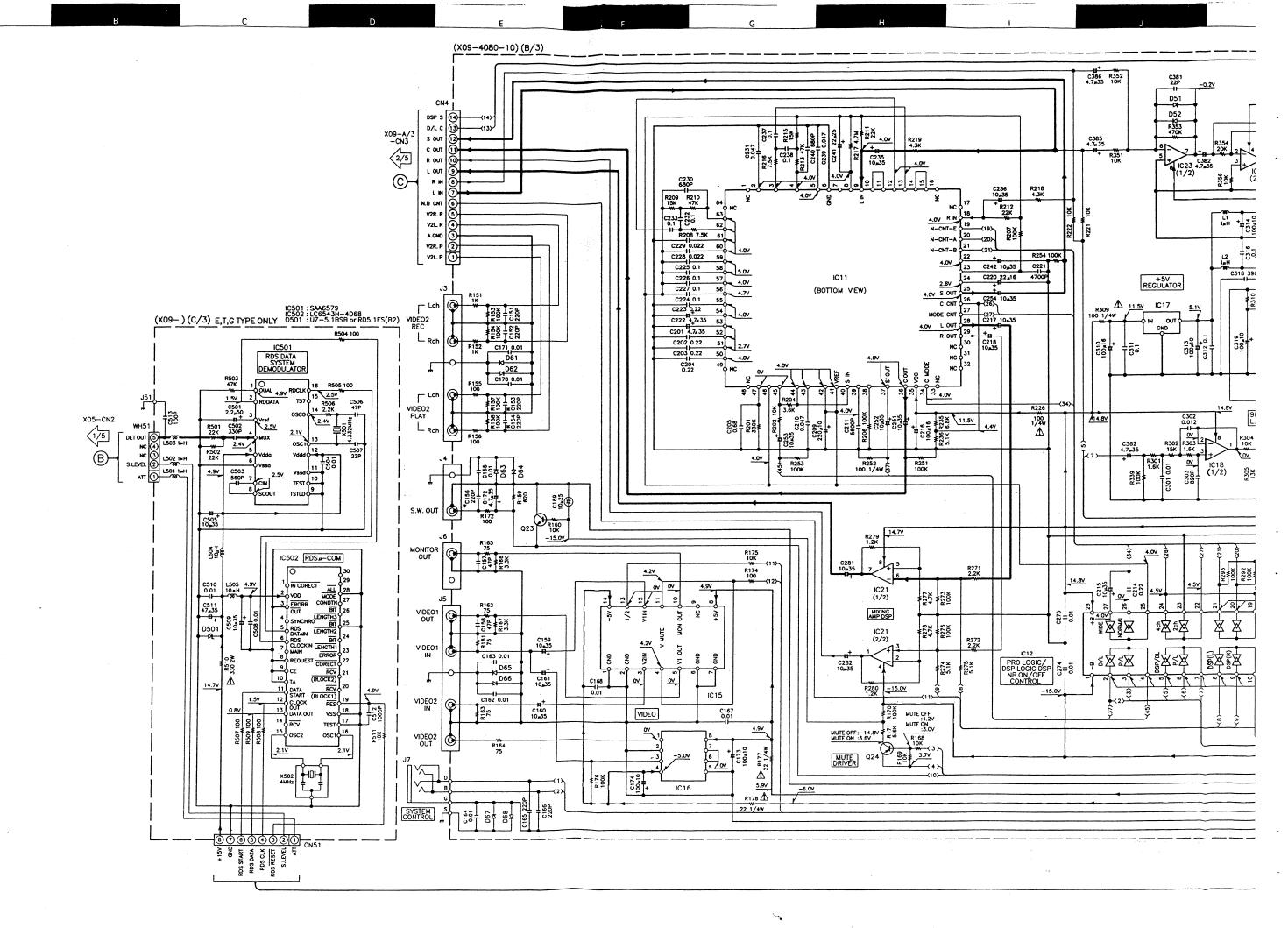
Les tensions c.c. doivent être mesurées avec un loi tmètre à haute impédance: Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

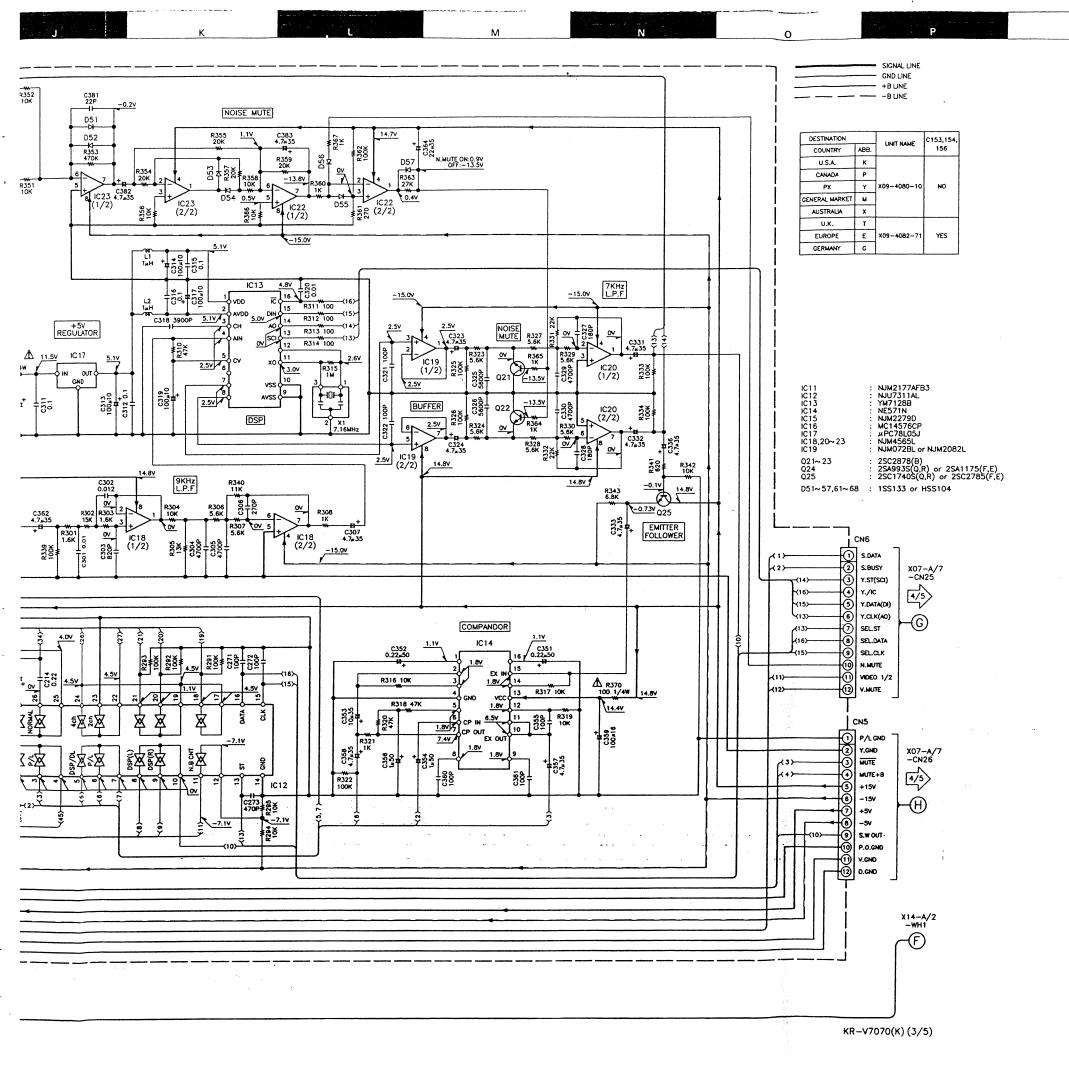
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabe schwanken die Meßwerte aufgrund von Unterschieden zwischene inzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace stepty critical components only with manufacturer's recommended parts (refer to parts list). \(\frac{\Lambda}{\Lambda}\) indicates safety critical components. To reduce the risk of electric shock, leakage-crirent or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) befire the appliance is returned to the customer.

2/5







DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instuments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haite impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mestre individuels.

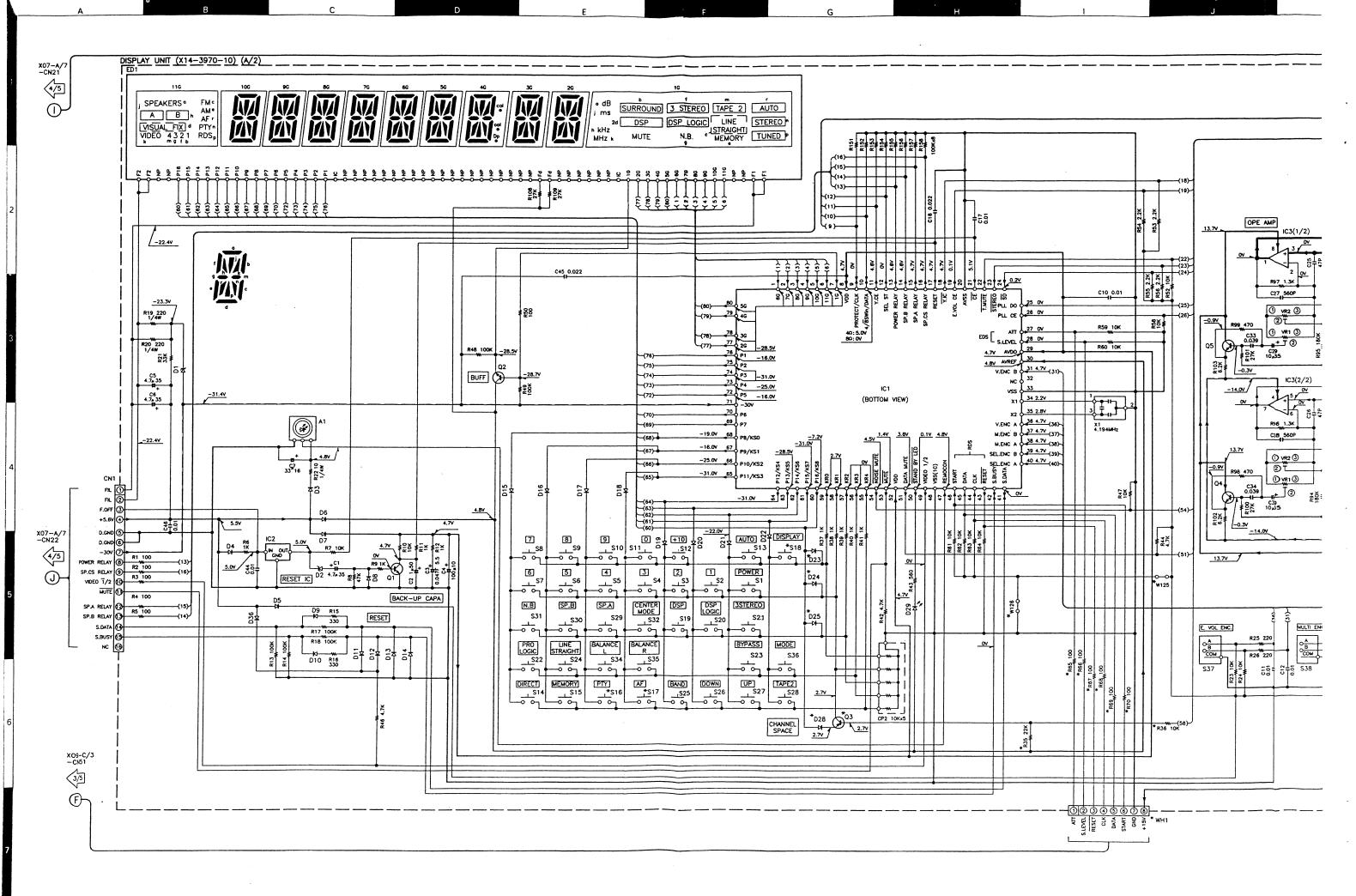
Die angegebenen Gleichspannungswerte wurden mit einem lochohmigen Spannungsmesser gemessen. Dabei schwanken ie Meßwerte aufgrund von Unterschieden zwischen einzelnen Instumenten oder Geräten u. U. geringfügig.

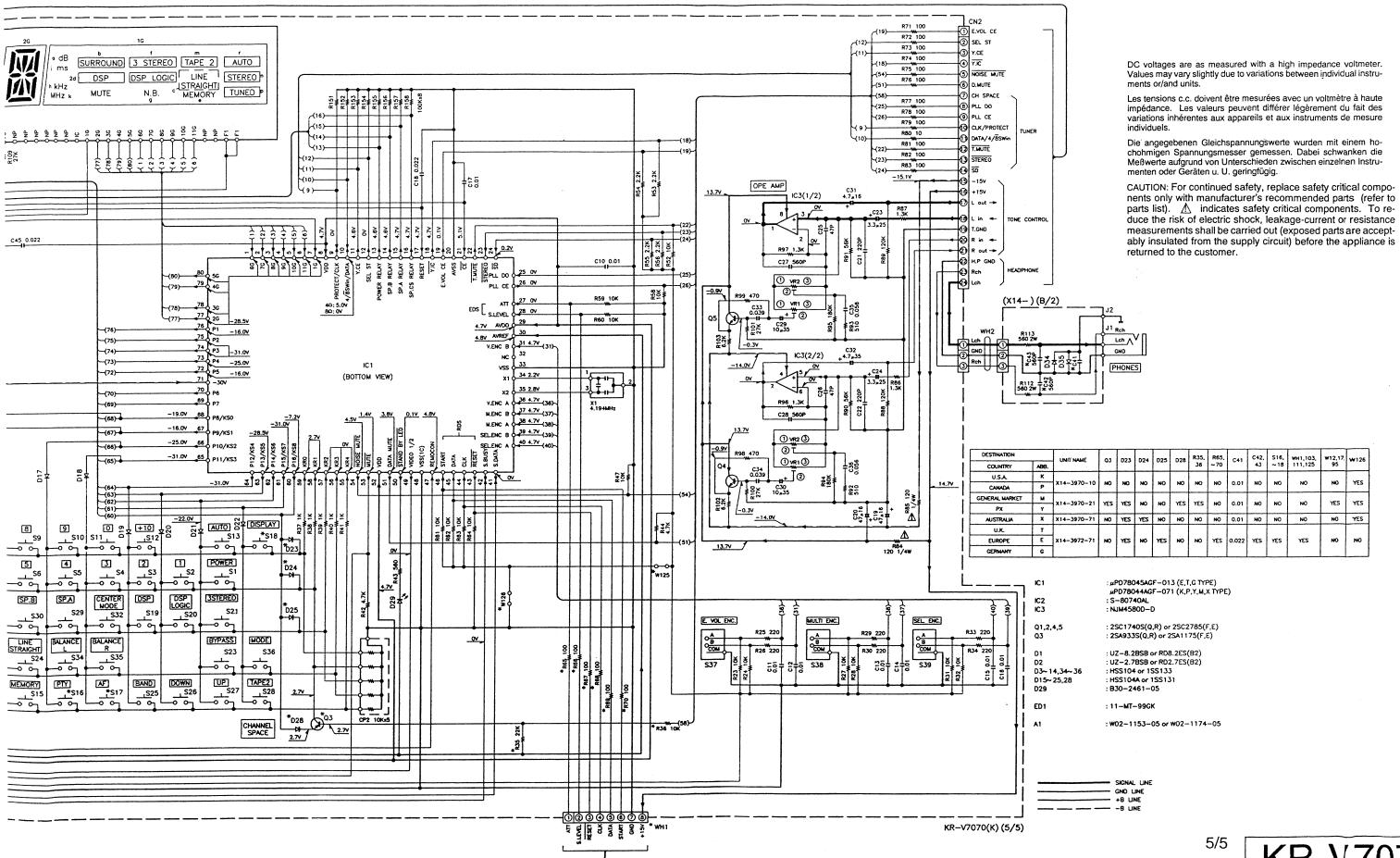
CAUTION: For continued safety, replace safety critical conponents only with manufacturer's recommended parts (reer to parts list). \(\Lambda\) indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acep tably insulated from the supply circuit) before the appliance is returned to the customer.

3



Y05-2960-10



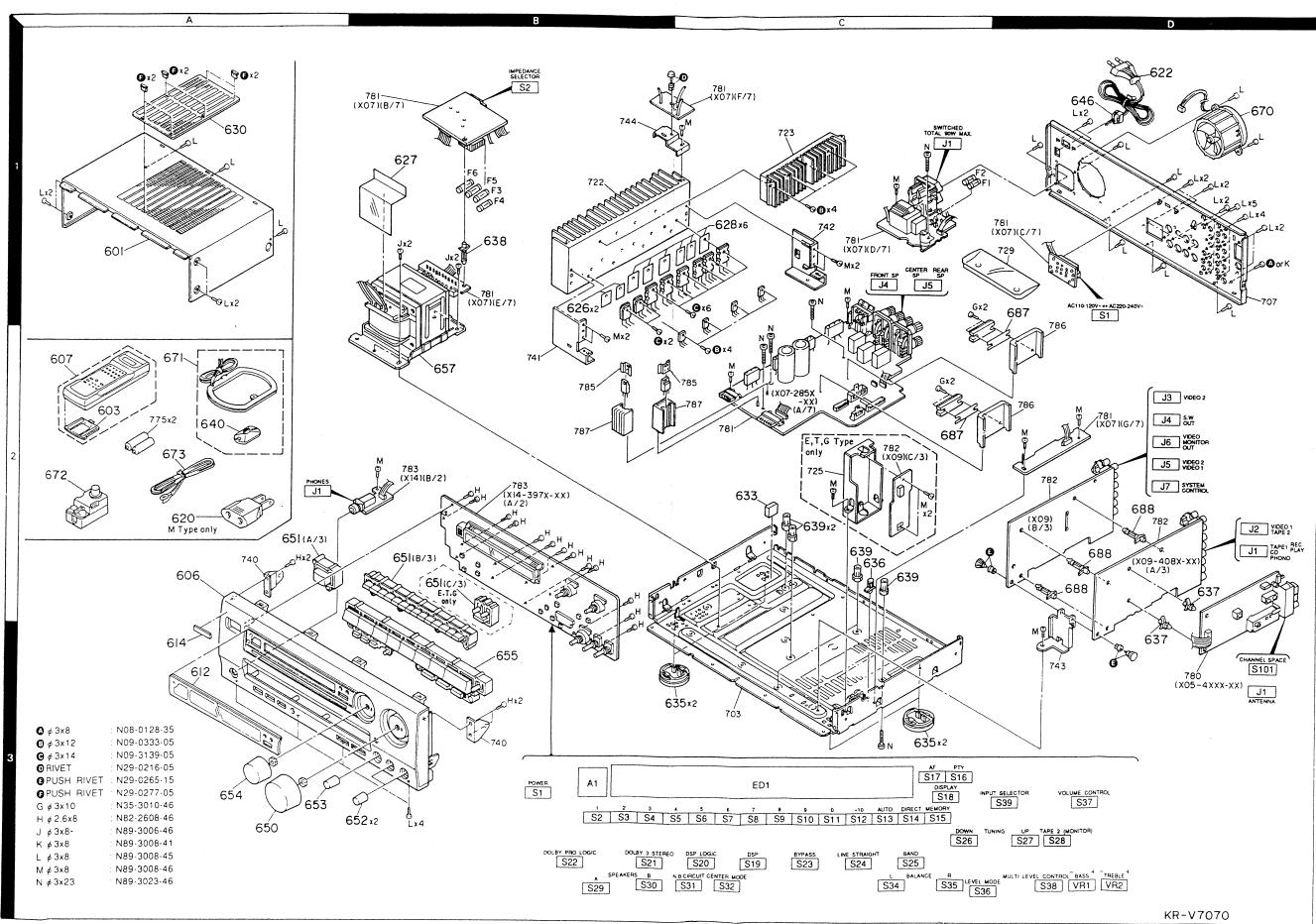


KR-V7070

Y05-2960-10

KR-V7070

EXPLODED VIEW



Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis. Teile ohne Parts No. werden nicht geliefent.

No.1

Ref、No. 参照番号	Address 位 置	New Parts	Parts No. 部品番号	Description 邮品名/規格	Desti Re nation mar 仕 向備
- m	1111	-		-V7070	
001 003 006 006	1 A 2 A 2 A 2 A	* * *	A01-3192-01 A09-0194-08 A60-0661-11 A60-0722-11	METALLIC CABINET BATTERY COVER PANEL PANEL	KPYMX TEG
507 507	2A 2A	*	A70-1008-05 A70-1009-05	REMOTE CONTROLLER ASSY(-R0704) REMOTE CONTROLLER ASSY(-R0705)	TEG
512 512 514	3A 3A 3A	* * *	B03-2924-13 B03-2925-13 B43-0287-04 B46-0092-43 B46-0096-53	DRESSING PLATE DRESSING PLATE KENWOOD BADGE WARRANTY CARD WARRANTY CARD	KPYMX TEG KY
- - - -		*	B46-0121-33 B46-0197-00 B46-0310-03 B58-0513-04 B58-0964-13	WARRANTY CARD QUESTIONAIRE CARD WARRANTY CARD CAUTION CARD (PRESET220-240) CAUTION CARD (UL)	P K TEG Y KY
• • • •		* * * *	B58-0965-13 B58-0966-13 B58-0967-03 B58-0970-13 B59-1104-00	CAUTION CARD (P,T,X) CAUTION CARD (ELM) CAUTION CARD CAUTION CARD SERVICE DIRECTORY	XT ME P G Y
- - - -		* * * * *	B60-1870-00 B60-1871-00 B60-1872-00 B60-1873-00 B60-1874-00	INSTRUCTION MANUAL (ENGLISH) INSTRUCTION MANUAL (FRENCH) INSTRUCTION MANUAL (SPA,CHI) INSTRUCTION MANUAL (ENGLISH) INSTRUCTION MANUAL (FRE,DUT)	KPYMX P M TE E
- -		* *	B60-1875-00 B60-1877-00 B60-2083-00	INSTRUCTION MANUAL (GERMANY) INSTRUCTION MANUAL (ITA,SPA) INSTRUCTION MANUAL (TAIWANESE)	EG E M
620 622 622 622 622	2A 1D 1D 1D 1D		E03-0115-05 E30-2592-15 E30-2605-05 E30-2650-05 E30-2717-05	AC PLUG ADAPTOR AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD	M MEG Y KP X
622	1 D		E30-2721-05	AC POWER CORD	Т
626 627 628 630	1B 1B 1C 1A	*	F20-1297-05 F20-1301-04 F20-1322-05 F20-1433-03	INSULATING SHEET INSULATING BOARD INSULATING BOARD INSULATING BOARD	T M
633	2C	*	G11~2191~04	CUSHION	
- -		* * * * *	H50-1317-14 H50-1318-14 H50-1320-14 H10-5915-02 H10-5915-02	ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(L)	KPYXEG M T KPYMXE G
- - -		*	H10-5916-12 H10-5916-12 H10-5917-02 H10-5918-02	POLYSTYRENE FOAMED FIXTURE(R) POLYSTYRENE FOAMED FIXTURE(R) POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R)	KPYMXE G T T

L: Scandinavia Y: PX (Far East, Hawaii) T: England Y: AAFES (Europe)

K: USA X: Australia

P: Canada E: Europe

R: Mexico G: Germany M: Other Areas

TUNER UNIT

UNIT NO.	Destination
X05-4460-13	KS, PS
X05-4460-23	YS, MS
X05-4460-73	XS

TUNER UNIT

UNIT NO.	Destination
X05-4532-70	TS, ES, GS

MAIN AMP UNIT

UNIT NO.	Destination
X07-2850-10	KS, PS
X07-2850-21	MS
X07-2850-51	TS
X07-2850-71	xs
X07-2852-71	ES, GS
X07-2852-91	YS

AUDIO UNIT

UNIT NO.	Destination
X09-4080-10	KS, PS, YS, MS, XS
X09-4082-71	TS, ES, GS

DISPLAY UNIT

2.0. 2						
UNIT NO.	Destination					
X14-3970-10	KS, PS					
X14-3970-21	YS, MS					
X14-3970-71	XS					
X14-3972-71	TS, ES, GS					

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle onne Parts No. werden nicht geliefert.

No.2

1	Ref. No.	Address	New	Parts No.	Description	Desti-	Re-
-	参照書号	位置	¥	部品番号	部品名/規格	nation 仕 向	mair 備:
	- - -			H25-0232-04 H25-0232-04 H25-0651-04 H25-1516-04	PROTECTION BAG (235X350X0.03) PROTECTION BAG (235X350X0.03) PROTECTION BAG (0232 PRINTED) PROTECTION BAG	KPYMXE G T	
	635 636 637 638 639	3C 2C 2D,3D 1B 2C	*	J02-1122-05 J19-2536-05 J19-3324-15 J19-3329-05 J19-3752-14	FOOT (46mm) UNIT HOLDER UNIT HOLDER UNIT HOLDER UNIT HOLDER		
	640 646 -	2A 1D		J19-3645-05 J42-0083-05 J61-0307-05	LOOP ANTENNA STAND POWER CORD BUSHING WIRE BAND		
	650 651 652 653 654	3A 2A,2B 3B 3A 3A		K29-5851-04 K29-6039-02 K29-6041-04 K29-6042-04 K29-6043-04	KNOB (VOLUME CONTROL) KNOB (POWER/10KEY/RDS) KNOB (BASS, TREBLE) KNOB (MULTI LEVEL CONTROL) KNOB (INPUT SELECTOR)		
1	655	3B	*	K29-6045-02	KNOB		
Ž	657 657 657 657	2B 2B 2B 2B	* * * *	L07-1842-05 L07-1844-05 L07-1845-05 L07-1846-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	KP YM X TEG	
	A B C D E	1D 1C,2C 1B,1C 1C 2D,3D		N08-0128-35 N09-0333-05 N09-3139-05 N29-0216-05 N29-0265-15	BINDING POST (GND) TAPPING SCREW (3X12) TAPTITE SCREW (3X14) RIVET PUSH RIVET	YMXTEG	
	F H J K L	1A 2B,3B 1B 1D 1D,3B		N29-0277-05 N82-2608-46 N86-3006-46 N89-3008-41 N89-3008-45	PUSH RIVET BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	M KP	
	M N	1C,2D 1C,3C		N89-3008-46 N89-3023-46	BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
16	670 671 672 673	1 D 2 A 2 A 2 A	*	T49-0025-02 T90-0195-05 T90-0198-05 T90-0801-05	MOTOR ASSY LOOP ANTENNA ASSY ANTENNA ADAPTOR LEAD WIRE ANTENNA		
L				TUNER UNI	- 100 ///	1	
0	21 ,2 24 25 28 210			CK73FB1H103K CE04LW1A470M CK73FB1H103K CK73FB1H103K CK73FB1H102K	CHIP C 0.010UF K ELECTRO 47UF 10WV CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 1000PF K	KPYMX KPYMX KPYMX KPYMX KPYMX	
0	211 213 214 221 ,22 221 ,22			CE04LW1H4R7M CE04LW1H010M CE04LW1H2R2M CQ92FM1H163J CQ92FM1H243J	ELECTRÓ 4.7UF 50WV ELECTRO 1.0UF 50WV ELECTRO 2.2UF 50WV MYLAR 0.016UF J MYLAR 0.024UF J	KPYMX KPYMX KPYMX YMX KP	
C	223 224 225 227			CE04LW1H010M CE04LW1H3R3M CE04LW1V100M CK73FB1E473K	ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV ELECTRO 10UF 35WV CHIP C 0.047UF K	KPYMX KPYMX KPYMX KPYMX	

L: Scandinavia	K: USA
¥: PX (Far East, Hawaii)	T: England
Y: AAFES (Europe)	X: Australia

X: Australia

P: Canada E: Europo

R: Mexico e: Germany

M: Other Areas

indicates safety critical components

KR-V7070

		1
- 1		

Ref. No. 参照者号	Address 位置	Parts	Parts No. 部品音号	Description 部品名/規格	Desti-Renation ma
C28			CE04LW1V100M	ELECTRO 10UF 35WV	1,,,,,,,
C31	1	1	CEO4LW1A470M	ELECTRO 47UF 10WV	KPYMX KPYMX
C32	ŀ	1	CK73FB1H103K	CHIP C 0.010UF K	KPYMX
C33	1		CC73FCH1H270J	CHIP C 27PF J	
C34			CC73FCH1H220J	CHIP C 22PF J	KPYMX KPYMX
C35 -38	1		CK73FB1H471K	CHIP C 470PF K	КРҮМХ
C39	ł		CEO4LW1C470M	ELECTRO 47UF 16WV	KPYMX
C40	ĺ		CK73FB1H223K	CHIP C 0.022UF K	KPYMX
C41	1	1	CEO4LWIHO10M	ELECTRO 1.OUF SOWV	KPYMX
C42 ,43			CK73FB1H103K	CHIP C 0.010UF K	KPYMX
C50			C91-0769-05	CERAMIC 0.010UF K	KPYMX
C51	i		CEO4LW1HO10M	BLECTRO 1.OUF SOWV	KPYMX
C52		1	CEO4LW1C470M	ELECTRO 47UF 16WV	KPYMX
C57	1	1	CC73FSL1H220J	CHIP C 22PF J	KPYMX
C65			CE04LW1H010M	ELECTRO 1.OUF SOWV	KPYMX
C66			CK73FB1H102K	CHIP C 1000PF K	KPYMX
C71		1	CEO4LW1V100M	ELECTRO 10UF 35WV	KPYMX
C72	1		CEO4LW1C470M	ELECTRO 47UF 16WV	KPYMX
C103-106		1	CEO4LW1HR47M	ELECTRO 0.47UF 50WV	KPYMX
C107			CK73FB1E473K	CHIP C 0.047UF K	KPYMX
C112			CC73FSL1H101J	CHIP C 100PF J	KPYMX
C114	1	1	CK73FB1H681K	CHIP C 680PF K	KPYMX
C115,116	1	1	CC73FSL1H101J	CHIP C 100PF J	KPYMX
C121,122	1		CE04LW1C470M	ELECTRO 47UF 16WV	KPYMX
C135,136			CQ92FM1H682J	MYLAR 6800PF J	YM
C182			CC73FSL1H150J	CHIP C 15PF J	KPYMX
J1			E20-0321-05	LOCK TERMINAL BOARD ANTENNA	KPYMX
CF1 ,2			L72-0531-05	CERAMIC FILTER	VDVWV
CF3	i	1 1	L72-0574-05	CERANIC FILTER	KPYMX
L7	i		L30-0467-05	AM IFT	KPYMX
L10	l	1 1	L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYMX
L11			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)	KPYMX KPYMX
L12			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	
L103			L39-1328-05	COMBINATION COIL	KPYMX
L106		ı I	L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYMX
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)	KPYMX
X2			L78-0295-05	RESONATOR (456kHz)	KPYMX
R11			RS14KB3A820J	FL-PROOF RS 82 J 1W	KPYMX
R31			RS14KB3D221J	FL-PROOF RS 220 J 2W	KPYMX
R42			RD14NB2E101J	RD 100 J 1/4W	KPYMX
R111			RD14NB2E470J	RD 47 J 1/4W	KPYMX
R127,128			RD14NB2E101J	RD 100 J 1/4W	KPYMX
W46 W48			R92-0670-05	CHIP R O OHM	KPYMX
			R92-0670-05	CHIP R O OHM	KPYMX
S101			S62-0034-05	SLIDE SWITCH CHANNEL SPACE	YM
D3 D3			HZS5.1N(B2)	ZENER DIODE	KPYMX
D3 D4			RD5.1ES(B2)	ZENER DIODE	KPYMX
			HZS3.3N(B2)	ZENER DIODE	KPYMX
D4 D7			RD3.3ES(B2)	ZENER DIODE	KPYMX
U I			MA110	DIODE	KPYMX
		K: U	JSA P : Canada	R: Mexico	LL

E: Europe X: Australia M: Other Areas

G: Germany

× New Parts

Parts without Parts No. are not supplied.

No.5

Desti-

nation

TEG

TEG TEG.

TEG

TEG

TEG

TEG

TEG

TEG

TEG

TEG

TEC

TEG

1/4W

J 2W

仕 向 備考

Description

部品名/規格

47UF

47UF

1.0UF

1.0UF

33PF

1000PF

2200PF

6.0PF

0.047UF

100PF

100PF

2.0PF

LOCK TERMINAL BOARD ANTENNA

SMALL FIXED INDUCTOR(1UH)

CRYSTAL RESONATOR(7.2MHz)

SMALL FIXED INDUCTOR(10UH.K)

100

47

220

O OHM

MHØ 0

MHØ 0

O OHM

O OHM

O OHM

(456kHz)

22PF

0.010UF

0.010UF

0.010UF

10WV

16WV

50WV

50WV

K

С

CHIP C

ELECTRO

ELECTRO

ELECTRO

CHIP C

ELECTRO

CHIP C

CERAMIC

CERAMIC

LC FILTER FM IFT

LC FILTER

RESONATOR

FL-PROOF RS

AM IFT

RD

CHIP R

CHIP R

CHIP R

CHIP R

CHIP R

CHIP R

DIODE

DIODE

DIODE

DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

CERAMIC FILTER

COMBINATION COIL

Ref. No.

C42 ,43

CAA

C45

C46

C47

C48

C49

C50 C51 -54

C55

C56

C57

C58

C60

C61 C62

J1

CF1

Ĺ5

L6

17

L8 , 9

X2

R42

R78

R79

W101-106

W108-112

W114-119

W121.122

W201-203

W207,208

D 1

Di , 2

D3

D3

DΔ

04

D5

D5

D6

D7

DB

D9

IC1

IC2

L11

Les articles non mentionnes dans le Parts No, ne sont pas fournis. Teile ohne Parts No. werden nicht geliefent.

Parts No.

部品番号

CK73FB1H103K

CEO4LW1A470M

CEO4LW1C470M

CEO4LW1H010M

CK73FB1H103K

CEO4LW1H010M

CK73FB1H103K

CC73FCH1H330J

CK73FB1H102K

CK73FB1H222K

CC73FCH1H060D

CC73FCH1H220J

CC73FSL1H101J

CC45FSL1H020C

CK73FB1E473K

C91-0745-05

E20-0321-05

L72-0536-05

L79-1219-05

L30-0910-05

L79-0125-05

L39-1328-05

L30-0467-05

L40-1091-17

L40-1001-17

L77-1122-05

L78-0295-05

RD14NB2E101J

RD14NB2E470J

RS14KB3D221J

R92-0670-05

R92-0670-05

R92-0670-05

R92-0670-05

R92-0679-05

R92-0679-05

MTZJ5.1(B)

MTZJ8.2(B)

RD5.1ES(B2)

RD8.2ES(B2)

HSS104

1SS133

HSS104

155133

Address New

位 置

D-4 No	Addra	ss New	Parts No.	Description	Desti- Re-
Ref. No. 参照音号		Parts	部品普号	部品名/規格	nation marks 仕 向 備考
D6 D6 D11 D11 D111,112			HSS104 1SS133 HZS8.2N(B2) RD8.2ES(B2) MA110	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	KPYMX KPYMX KPYMX KPYMX KPYMX
IC1 IC2 IC12 Q1 Q2			LA1831A-KEN LC7218 NJM4565D 2SC2714(R,0) 2SC1845(F,E)	ANALOGUE IC IC(PLL SYNTHESIZER) IC(OP AMP X2) TRANSISTOR TRANSISTOR	KPYMX KPYMX KPYMX KPYMX KPYMX
Q3 Q3 Q7 Q11 Q102			2SC1740S(Q,R) 2SC2785(F,E) 2SC2412K 2SD863(E,F) 2SA1037K	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPYMX KPYMX KPYMX KPYMX KPYMX
Q104 Q107-110 Q109,110 Q111			2SA1037K 2SC2412K 2SC2412K 2SA1037K	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPYMX YM KPX KPYMX
DT1			W02-2512-05	FM FRONT-END ASSY T (X05-4532-70)	KPYMX
C1 ,2 C3 C4 C5 C6			CK73FB1H103K CE04LW1V100M CK73FB1E473K CE04LW1V100M CK73FB1E473K	CHIP C 0.010UF K ELECTRO 10UF 35 CHIP C 0.047UF K	TEG TEG TEG TEG TEG TEG TEG TEG
C7 C8 C9 C10 C11			CE04LW1V100M CE04LW1H010M CE04LW1HR47M CE04LW1H2R2M CE04LW1HR47M	ELECTRO 1.0UF 50 ELECTRO 0.47UF 50 ELECTRO 2.2UF 50	HV TEG HV TEG HV TEG HV TEG HV TEG
C12 C13 C14 C15 C16			CK73FB1E473K CC73FCH1H220J CE04LW1A101M CK73FB1H472K CE04LW1H010M	CHIP C 4700PF K	TEG TEG TEG TEG TEG TEG
C17 ,18 C19 ,20 C21 C22 C23 ,24			CE04LW1V100M CQ92FM1H273J CK73FB1H103K CC73FSL1H101J CE04LW1H2R2M	MYLAR 0.027UF J CHIP C 0.010UF K CHIP C 100PF J	SWV TEG TEG TEG TEG TEG TEG
C25 ,26 C27 C28 C29 C30			CK73FB1H562K CK73FB1E473K CC73FSL1H150J CE04LW1H0R1M CE04LW1C470M		TEG TEG TEG TEG TEG TEG TEG TEG TEG
C31 C32 C33 C34 C35 -38			CK73FB1E473K CK73FB1H103K CC73FCH1H270J CC73FCH1H220J CC73FSL1H101J	CHIP C 0.047UF K CHIP C 0.010UF K CHIP C 27PF J CHIP C 22PF J CHIP C 100PF J	TEG TEG TEG TEG TEG
C39			CE04LW1C470M CE04HW1H2R2M	MYLAR 0.022UF J	6WV TEG

L: Scandinavia	K: USA
Y: PX (Far East, Hawaii)	T: England

Y: AAFES (Europe)

A indicates safety critical components

<u> </u>	
L: Scandinavia	
Y: PX (Far East, Hawaii)	
Y: AAFES (Europe)	

P: Canada E: Europe X: Australia

R: Mexico G: Germany

i i y						
	Λ	indicates	safely	critical	components	

MTZJ3.3(B) ZENER DIODE RD3.3ES(B2) ZENER DIODE MA110 DIODE 155268 DIODE MA110 DIODE LA1836 ANALOGUE IC LC7218 IC(PLL SYNTHESIZER)

> K: USA T: England

M: Other Areas

USA X: Australia

P: Canada E: Europe M: Other Areas

R: Mexico G: Germany

Ref. No.

IC3

92

Q3 -5

Q7 , 8

Q9

910

Q16

917

Q18

C2

C3

C4

Ċ5

C6

C12

C13

C14

, 9 Č8

C10 ,11

C15 ,16 C21 ,22

C23 ,24

C25 ,26

C27 ,28

C29

C30

C31

C32

C33

C34

C35

C36

C37

C38

C39

C40

C41 .42

C51 ,52

C53 ,54

C53 ,54

C55 ,56 C57 ,58 C59 ,60

C61 ,62

C63 ,64

C63 ,64

C65 ,66

C67 ,68

911,12

参照番号

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis

Parts No.

2SC2714(R, 0)

2SC1845(F,E)

2SC4081(R,S)

25A1576(R.S)

2SD863(E,F)

2SD1757K

2SA1576(R,S)

25C4081(R.S)

2SA1576(R,S)

2SC4081(R,S)

W02-2509-05

C91-1488-05

CK45FF1H103Z

CEO4LW1V4R7M

CE04LW1E102M

CK45FF1H223Z

CK45FF1H103Z

CK45FE2H103P

CK45FF1H103Z

CEO4LW1C331M

CK45FB1H102K

CK45FF1H473Z

C90-3536-05

CE04LW1V102M

CE04LW1C470M

CK45FB1H102K

CE04LW1C470M

CEO4LW1A470M

CE04LW1J221M

CEO4LW1A470M

CEO4LW1V100M

CE04LW1C470M

CC45FSL1H331J

CE04LW1C330M

CEO4LW1V4R7M

CE04LW1V100M

CK45FF1H103Z

CC45FSL1H101J

CC45FSL1H101J

CEO4LW1A470M

CC45FSL1H030C

CC45FSL1H151J

CK45FB1H391K

CE04LW1A101M CC45FSL1H050C

CC45FSL1H180J

CC45FSL1H470J

CK45FB1H102K

CK45FB1H681K

CE04LW1H010M

CEO4LW1A101M

M5223P

部 品 書 身

Telle ohne Parts No. werden nicht geliefert.

Address New Parts 位置新

No.6

向備考

Desti-nation

TEG

ΚP

TEG

TEG

TEG

TEG

KPYMX

KPYMX

TEG

TEG

KPYMX

Description

部品名/規格

6800PF

4.7UF

1000UF

0.022UF

0.010UF

0.010UF

0.010UF

330UF

1000PF

0.047UF

6800UF

1000UF

1000PF

47UF

47UF 47UF

220UF

47UF

10UF

47UF

330PF

4.7UF

0.010UF

100PF

100PF

470F

3.0PF

150PF

390PF

100UF

5.OPF

18PF

47PF

1000PF

680PF

1.0UF

100UF

33UF

10UF

0.010UF

250VAC

Z 35WV

25WV

Z

16WV

71WV

35WV

16WV

16WV

10WV

63WV

10WV

35WV

16WV

16WV

35WV

35WV

10WV

iowv

50WV

10WV

С

IC(OP AMP X2)

TRANSISTOR

MAIN AMP UNIT (X07-285X-XX)

CERAMIC

ELECTRO.

ELECTRO

CERAMIC

CERAMIC

CERAMIC

CERAMIC

ELECTRO

CERAMIC

CERAMIC

ELECTRO

ELECTRO

ELECTRO

CERAMIC

ELECTR®

ELECTRO

ELECTRO

ELECTRO

ELECTRO

ELECTRO

CERAMIC

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CERAMIC

CERAMIC

ELECTRO

CERAMIC

CERAMIC

CERAMIC

CERAMIC

CERAMIC

ELECTRO

ELECTRO

FM FRONT-END ASSY

× New Parts Parts without Parts No. are not supplied. Les articles non mentionnes dans le Parts No. ne sont pas fournis. Telle onne Parts No. werden nicht geliefert,

No.7

Ref. No.	Address		Parts No.	Description	Desti-	Re-
参照番号	位位	Parts ≸i	部品普号	部品名/規格	nation 仕 向	marks 備考
C71 ,72 C73 ,74 C75 ,76 C77 ,78 C79 ,80			CC45FSL1H030C CC45FSL1H151J CE04LW1A101M CC45FSL1H050C CC45FSL1H180J	CERAMIC 3.0PF C CERAMIC 150PF J ELECTRO 100UF 10WV CERAMIC 5.0PF C CERAMIC 18PF J		
C81 .82 C83 .84 C85 .86 C87 .88			CC45FSL1H470J CK45FB1H681K CE04LW1H010M CE04LW2A100M CE04LW1A101M	CERAMIC 47PF J CERAMIC 680PF K ELECTRO 1.0UF 50WV ELECTRO 10UF 100WV ELECTRO 10UF 10WV		
C100 C103-106 C107-110 C109,110 C113-116	- 1		CE04LW1C101M CK45FF1H103Z CF92FV1H224J CQ93FMG1H104J CK45FF1H103Z	ELECTRO 100UF 16WV CERAMIC 0.010UF Z MF-C 0.22UF J MYLAR 0.10UF J CERAMIC 0.010UF Z	TEG KPYMX	
C117-120 C118,119 C121-124 C125-128 C125,126			CF92FV1H224J CQ93FMG1H104J CK45FF1H472Z CK45FB1H102K CK45FB1H332K	MF-C 0.22UF J MYLAR 0.10UF J CERAMIC 4700PF Z CERAMIC 1000PF K CERAMIC 3300PF K	TEG KPYMX TEG KPYMX TEG	
C127,128 C129,130 C131 C133 C134			CK45FB1H471K CK45FB1H332K CK45FB1H391K CE04LW1V4R7M CE04LW0J221M	CERAMIC 470PF K CERAMIC 3300PF K CERAMIC 390PF K ELECTRO 4.7UF 35WV ELECTRO 220UF 6.3WV	TEG TEG TEG	
C135			CQ93FMG1H473J	MYLAR 0.047UF J		
J1 J1 J1 J4 J4			E03-0148-05 E03-0149-05 E03-0310-05 E70-0018-05 E70-0019-05	AC OUTLET AC OUTLET AC OUTLET AC OUTLET SCREW TERMINAL BOARD FRONT SP SCREW TERMINAL BOARD FRONT SP	KP YMEG T KPYMX TEG	
J5			E70-0046-05	LOCK TERMINAL BOARD C.SP/R.SP		
687 F1 F1 F1 ,2 F2	1D,2C		F20-1426-05 F05-3121-05 F05-7026-05 F05-3121-05 F05-2525-05	INSULATING BOARD FUSE (SEMKO) (250V T3.15AL) FUSE (UL) (250V TA) FUSE (SEMKO) (250V T3.15AL) FUSE (SEMKO) (250V T2.5AL)	XTEG KP YM EG	
F3 ,4 F3 ,4 F5 ,6 F5 ,6			F04-1026-05 F06-1022-05 F05-1037-05 F05-6321-05	FUSE (UL) (250V 1A) FUSE (SEMKØ) (250V TIAL) FUSE (250V 10A) FUSE (SEMKØ) (250V T6.3A)	KP YMXTEG KP YMXTEG	ĺ
CN2 -13 CN2 ,3 CN2 ,3 CN6 -13 CN6 -9			J13-0075-05 J13-0041-05 J13-0075-05 J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP	YMEG KP XT XT KP	
CN10-13 J6 -8			J13-0041-05 J11-0098-05	FUSE CLIP WIRE CLAMPER	KP	
L1 -4 T1 T1 T1		*	L39-0085-05 L07-1876-05 L07-1877-05 L07-1879-05 L07-1879-05	PHASE COMPENSATION COIL POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	KP YM X TEG	
L: Scandinavia		K:	USA P: Canada	R: Mexico		1

L: Scandinavia
Y: PX (Far East, Hawai
Y: AAFES (Europe)

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Y: PX (Far East, Hawaii)	1
Y: AAFES (Europe)	X:

: USA P: Canada England E: Europe M: Other Areas X: Australia

R: Mexico G: Germany

indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

No.9

Desti-Re-nation marks 住 向備考

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Description

部品名/規格

ZENER DIODE

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× New Parts

Ref. No.

D21 -24 D21 -24

D26 D26 D27,28 D27,28

D30 D31 -33 D31 -33

D42 -44

D42 -44 D42 -44 D51 ,52 D51 ,52 D71 -75

D71 -75

076

D25

D25

D29

030

参照番号

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

新

Parts No.

部品番号

UZ-3.9BSB

1SR139-100

RD8, 2ES(B2)

RD6.2ES(B2) UZ-6.2BSB RD16ES(B2) UZ-16BSB

RD6.2ES(B2)

RD2.7ES(B2) UZ-2.7BSB

UZ-6.2BSB

HSS104

155133

HSS104

155133 HSS104 155133

HSS104A

1SS131

RD5.6ES(B2)

UZ-8.2BSB

S56888

Telle ohne Parts No. werden nicht geliefent. Address New

位置

No.8

١	Ref.	No.	Address	New Parts	Parts No.	Description		Re- narks
	参照	番号	位置	•	部品番号	部 品 名 / 規 格		備考
	G		10,2C		N35-3010-46	BINDING HEAD MACHINE SCREW		
,	CP1 - CP4 R1 R8 R9	-3			R90-0840-05 R90-0868-05 R92-1769-05 RD14NB2E470J RS14KB3A103J	RD 0.22 SW MULTIPLE RESISTOR CARBON 3.3M J 1/2W RD 47 J 1/4W FL-PROOF RS 10K J 1W	ΚP	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R10 R30 R33 R41 R43	-12			RD14NB2E4R7J RD14NB2E6B2J RD14NB2E101J RS14KB3A6B0J RS14KB3A6B0J	RD 4.7 J 1/4W RD 6.8K J 1/4W RD 100 J 1/4W FL-PR00F RS 68 J 1W FL-PR00F RS 68 J 1W		
7	R45 R98 R105 R109 R117	,110		*	RS14KB3A103J RD14NB2E332J RD14NB2E271J RD14NB2E272J RD14NB2E271J	FL-PROOF RS 10K J 1W RD 3.3K J 1/4W RD 270 J 1/4W RD 2.7K J 1/4W RD 270 J 1/4W		
	R121 R125 R137 R150 R150	-128 -140 -152		*	RD14NB2E272J RS14KB3D4R7J RD14NB2E100J RS14KB3D271J RS14KB3D271J	RD 2.7K J 1/4W FL-PR00F RS 4.7 J 2W RD 10 J 1/4W FL-PR00F RS 270 J 2W FL-PR00F RS 270 J 2W	KPYMX TEG	
7	R154 R167 R177 VR1	-4			RS14KB3D101J RD14NB2E470J RS14KB3A330J R12-1617-05	FL-PROOF RS 100 J 2W RD 47 J 1/4W FL-PROOF RS 33 J 1W TRIMMING POT.(2.2K)		
7777		-4 -4			\$76-0002-05 \$51-2078-05 \$51-2092-05 \$31-3010-05 \$31-2136-05	MAGNETIC RELAY MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH AC VOLTAGE SEL SLIDE SWITCH IMPEDANCE SEL	YM	
7	D1 D5	-4 -4 ,6			S5688B 1SR139-100 HSS104A 1SS131 HSS104	DIODE DIODE DIODE DIODE		
7		,10 ,10 ,12			1SS133 05FB20-4002-L20 HSS104A 1SS131 S5680B	DIODE DIODE DIODE DIODE DIODE		
	D11 D13 D13 D14 D14	,12			1SR139-100 RD5.6ES(B2) UZ-5.6BSB HSS104 1SS133	DIODE ZEMER DIODE ZEMER DIODE DIODE DIODE		
	D15 D15 D16 D16 D17				HSS104A 1SS131 RD4.7ES(B) UZ-4.7BS RD2.7ES(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
	D17 D18 D18 D20	.19			UZ-2.7BSB RD6.8ES(B2) UZ-6.8BSB RD3.9ES(B2)	ZENER DIODE ZENER DIODE ZENER DIODE		

L: Scandinavia Y: PX (Far East, Hawaii)

Y: AAFES (Europe)

K: USA T: England X: Australia

P: Canada R: Mexico E: Europe G: Germany M: Other Areas

A indicates safety critical components.

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	D76 D76 D81 D81	RD5.6ES(B2) UZ-5.6BSB HSS104 1SS133	ZENER DIODE ZENER DIODE DIODE DIODE	
	D82 D82 D83 D83 D91 -96	RD5.6ES(B2) UZ-5.6BSB HSS104 1SS133 HSS104	ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE	
A	D91 -96 IC1 ,2 Q1 Q2 Q3 ,4	1SS133 UPC2581V 2SC2003(L,K) 2SA992(F,E) 2SD2012	DIODE IC SET TRANSISTOR TRANSISTOR TRANSISTOR	
	Q3 ,4 Q3 ,4 Q5 Q5 Q6	2SD2061 2SD2374 2SC1740S(Q,R) 2SC2785(F,E) 2SA1175(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Δ	96 97 97 98 98	2SA933S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E) 2SA1175(F,E) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
	99 910 911 -14 921 -23 921 -23	2SC3940A(R,S) 2SA1534A(R,S) 2SC1845(F,E) 2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
	Q27 ,28 Q29 Q31 -34 Q31 -34	2SC1845(F,E) 2SA992(F,E) DTC124ES UN4212 2SB1370	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	

No 10

Telle	ohne Parts	No. werde	≥n nic	cht gellefert.				INC	D.10
Re	f. No.	Address	New Parts		C	Description		Desti-	Re-
*	新春号	位置	\$1	部品舞号	ng a	13. 名/規	格		marks 備考
Q41 Q42 Q42 Q42 Q45	•			2SB1375 2SD2012 2SD2061 2SD2374 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
Q45 Q47 Q47 Q49 Q49	,48 ,48 ,50			2SC2785(F,E) 2SA1175(F,E) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
Q51 Q62 Q62 Q65 Q65	,63 ,63			2SC1845(F,E) 2SC1740S(Q,R) 2SC2785(F,E) 2SD2012 2SD2061	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
910	1,102 3,104 5,106			2SD2374 2SD2222BT 2SB1470BT 2SC4137F19(V,W) 2SD2222BT	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
Q10 Q10 Q11 Q11	9			2SD2390LB 2SB1470BT 2SB1560LB 2SC4137F19(V,W)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
L				AUDIO UNI	T (X09-408	3X-XX)			
C1 C3 C7 C11 C15				C91-0749-05 C91-0749-05 C91-0749-05 C91-0749-05 CE04LW1H010M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	220PF 220PF 220PF 220PF 1.0UF	K K K K Sowv	TEG KPYMX KPYMX KPYMX	
C17 C19 C21 C22 C23	, 20			C91-0729-05 CE04LW1C220M CE04LW1H010M CK45FB1H681K CE04LW1V100M	CERAMIC ELECTRO ELECTRO CERAMIC ELECTRO	22PF 22UF 1.0UF 680PF 10UF	J 16WV 50WV K 35WV		
C31				CC45FSL1H221J CE04LW1A101M C91-0757-05 CQ93FMC1H123J CQ93FMG1H332J	CERAMIC ELECTRO CERAMIC MYLAR MYLAR	220PF 100UF 1000PF 0.012UF 3300PF	J 10WV K J J		
C43				CE04LW1V4R7M CE04LW1E470M CK45FF1H103Z CC45FSL1H101J CK45FB1H471K	ELECTRO ELECTRO CERAMIC CERAMIC CERAMIC	4.7UF 47UF 0.010UF 100PF 470PF	35WV 25WV Z J K		
C65				C91-0735-05 CE04LW1H010M CE04LW1HR47M CE04LW1V4R7M CC45FSL1H101J	CERAMIC ELECTRO ELECTRO ELECTRO CERAMIC	39PF 1.0UF 0.47UF 4.7UF 100PF	J 50WV 50WV 35WV J		
C81	,78 ,80			CC45FSL1H220J CE04LW1H010M CE04LW1HR47M CE04LW1V4R7M CE04LW1V4R7M	CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO	22PF 1.0UF 0.47UF 4.7UF 4.7UF	J 50WV 50WV 35WV 35WV		
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L:	Scandinavia
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G: Germany

Parts without Parts No. are not supplied.

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Telle ohne Parts No. werden nicht geliefert.

No.11

	Ref.	No.	Add	ress	New Perts	Parts No.		Description		Desti-	Re-
-	照像	番号	位		新	部品青号	A	8 品名/規	格	nation 仕 向	mark: 備考
	C89 , C91 - C95 ,	90 94 96 98				CF92FV1H184J CC45FSL1H101J CE04LW1H010M CE04LW1V100M CK45FF1H103Z	MF-C CERAMIC ELECTRO ELECTRO CERAMIC	0.18UF 100PF 1.0UF 10UF 0.010UF	J J SOWV 35WV Z		
	C99 , C101 C102 C103 C105,					CC45FSL1H101J CK45FB1H471K CK45FF1H103Z CE04HW1E4R7M CK45FF1H103Z	CERAMIC CERAMIC CERAMIC NP-ELEC CERAMIC	100PF 470PF 0.010UF 4.7UF 0.010UF	J K Z 25₩V Z		
	C107 C108 C110, C112, C131,	113				CK45FB1H471K CK45FF1H103Z CE04LW1C221M CC45FSL1H101J CE04LW1H010M	CERAMIC CERAMIC ELECTRO CERAMIC ELECTRO	470PF 0.010UF 220UF 100PF 1.0UF	K Z 16WV J 50WV		
	C133, C151- C151, C155 C156	154				CE04LW1V4R7M C91-0749-05 C91-0749-05 CK45FF1H103Z CK45FB1H221K	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	4.7UF 220PF 220PF 0.010UF 220PF	35₩V K K Z K	TEG KPYMX TEG	
	C157, C159- C162- C165, C167,	161 164 166				CC45FSL1H470J CE04LW1V100M CK45FF1H103Z CK45FB1H221K CK45FF1H103Z	CERAMIC ELECTRO CERAMIC CERAMIC CERAMIC	47PF 10UF 0.010UF 220PF 0.010UF	J 35WV Z K Z		
	C169 C170, C172 C173, C201	i				CE04HW1E100M CK45FF1H103Z CE04LW1V4R7M CE04LW1A101M CE04LW1V4R7M	NP-ELEC CERAMIC ELECTRO ELECTRO ELECTRO	10UF 0.010UF 4.7UF 100UF 4.7UF	25WV Z 35WV 10WV 35WV		
	C202- C205 C209 C210 C211	204				CF92FV1H224J CF92FV1H684J CE04LW1A221M CQ93FMG1H473J CQ93FMG1H562J	MF-C MF-C ELECTRO MYLAR MYLAR	0.22UF 0.68UF 220UF 0.047UF 5600PF	J J 10WV J J		
	C214 C215 C216 C217, C220	218				CF92FV1H224J CE04LW1V100M CE04LW1C101M CE04LW1V100M CE04LW1C220M	MF-C ELECTRO ELECTRO ELECTRO ELECTRO	0.22UF 10UF 100UF 10UF 22UF	J 35WV 16WV 35WV 16WV		
	0221 0222 0223 0224 -					CQ93FMG1H472J CE04LW1V4R7M CF92FV1H224J CQ93FMG1H104J CQ93FMG1H223J	MYLAR ELECTRO MF-C MYLAR MYLAR	4700PF 4.7UF 0.22UF 0.10UF 0.022UF	J 35WV J J J		
1	0230 0231 0232, 0235,	233 236 238				CK45FB1H681K CQ93FMG1H473J CQ93FMG1H104J CE04LW1V100M CQ93FMG1H104J	CERAMIC MYLAR MYLAR ELECTRO MYLAR	680PF 0.047UF 0.10UF 10UF 0.10UF	K J J 35WV J		
100	0239 0240 0241 0242 0251-:	254				CQ93FMG1H473J CK45FB1H681K CE04GW1E220M CE04LW1V100M CE04LW1V100M	MYLAR CERAMIC LL-ELEC ELECTRO ELECTRO	0.047UF 680PF 22UF 10UF 10UF	J K 25WV 35WV 35WV		

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P: Canada

E: Europe M: Other Areas

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P: Canada E: Europe M: Other Areas

G: Germany

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No.13

* New Parts Parts without Parts No. are not supplied. Les articles non mentionnes dans le Parts No. ne sont pas fournis. Tella obne Parts No warden night gollofont

No 12

Ref. No.	Address No		Description		Desti-	Re-
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C271,272 C273 C274,275 C281,262 C301		CC45FSL1H101J CK45FB1H471K CK45FF1H103Z CE04LW1V100M CQ93FMG1H103J	CERAMIC 100PF CERAMIC 470PF CERAMIC 0.010UF ELECTRO 10UF MYLAR 0.010UF	J K Z 35₩V J		
C302 C303 C304,305 C306 C307		CQ93FMG1H123J CK45FB1H821K CQ93FMG1H472J CC45FSL1H271J CE04LW1V4R7M	MYLAR 0.012UF CERAMIC 820PF MYLAR 4700PF CERAMIC 270PF ELECTRO 4.7UF	J K J J 35WV		
C310 C311,312 C313,314 C315,316 C317		CEO4LW1C101M CQ93FMG1H104J CEO4LW1A101M CQ93FMG1H104J CEO4LW1A101M	ELECTRO 100UF MYLAR 0.10UF ELECTRO 100UF MYLAR 0.10UF ELECTRO 100UF	16WV J 10WV J		
C318 C319 C320 C321,322 C323,324		CQ93FMG1H392J CE04LW1A101M CK45FF1H103Z CC45FSL1H101J CE04LW1V4R7M	MYLAR 3900PF ELECTRO 10DUF CERAMIC 0.010UF CERAMIC 100PF ELECTRO 4.7UF	J 10WV Z J 35WV		
C325,326 C327,328 C329,330 C331-333 C336		CQ93FMG1H562J CC45FSL1H181J CQ93FMG1H472J CE04LW1V4R7M CE04LW1V4R7M	MYLAR 5600PF CERAMIC 180PF MYLAR 4700PF ELECTRO 4.7UF ELECTRO 4.7UF	J J J 35WV 35WV		
C351,352 C353 C354 C355 C356		CE04LW1HR22M CE04LW1V100M CE04LW1H010M CC45FSL1H101J CE04LW1H010M	ELECTRO 0.22UF ELECTRO 10UF ELECTRO 1.0UF CERAMIC 100PF ELECTRO 1.0UF	50WV 35WV 50WV J 50WV		
0357,358 0359 0360,361 0362 0364		CE04LW1V4R7M CE04LW1C101M CC45FSL1H101J CE04LW1V4R7M CE04LW1V220M	ELECTRO 4.7UF ELECTRO 100UF CERAMIC 100PF ELECTRO 4.7UF ELECTRO 22UF	35WV 16WV J 35WV 35WV		
381 382,383 385,386 3501 3502		CC45FSL1H220J CE04LW1V4R7M CE04LW1V4R7M CE04LW1V4R7M CE04LW1H2R2M CC45FSL1H331J	CERAMIC 22PF ELECTRO 4.7UF ELECTRO 4.7UF ELECTRO 2.2UF CERAMIC 330PF	J 35WV 35WV 50WV J	TEG TEG	
2503 2504 2505 2506 2507		CK45FB1H561K CK45FF1H103Z CE04LW1V100M CC45FCH1H470J CC45FCH1H220J	CERAMIC 560PF CERAMIC 0.010UF ELECTRO 10UF CERAMIC 47PF CERAMIC 22PF	K 2 35WV J J	TEG TEG TEG TEG TEG	
2508 2509 2510 2511 2512		CK45FF1H103Z CE04LW1V100M CK45FF1H103Z CE04LW1V470M CK45FB1H102K	CERAMIC 0.010UF ELECTR® 10UF CERAMIC 0.010UF ELECTR® 47UF CERAMIC 1000PF	Z 35WV Z 35WV K	TEG TEG TEG TEG TEG	
513		CC45FSL1H101J	CERAMIC 100PF	J	TEG	
J1 ,2		E63-0070-15 E63-0116-05	PHONO JACK(1692YJEE02 PHONO JACK(19)S.W OUT	TP/CD/PH ₀		J

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	Ref. No.	Address	New	Parts No.	Description	Desti-	
	参照番号	位置	Parts	部品番号		nation	Re- marks
	J5 J6		*	E63-0069-15 E63-0130-05	PHONO JACK(4P)VIDEO 1/VIDEO 2 PHONO JACK(1P)VIDEO MONITR OUT	仕 向	備考
	J7			E11-0188-05	MINIATURE PHONE JACK(2P)S.CONT		•
	688	2 D		J19-3331-05	UNIT HOLDER		
	L1 ,2 L501-503 L504,505 X1 X501			L40-1091-17 L40-1091-17 L40-1001-17 L78-0601-05 L77-2002-05	SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1UH,K) RESONATOR (7.16MHz) CRYSTAL RESONATOR(4.332MHz)	TEG TEG TEG	
	X502			L78-0244-05	RESONATOR (4.000M)	TEG	
A	R108,109 R177,178 R206 R226 R309			RD14NB2E470J RD14NB2E220J RN14BK2C1003F RD14NB2E101J RD14NB2E101J	RD 47 J 1/4W RD 22 J 1/4W RN 100K F 1/6W RD 100 J 1/4W RD 100 J 1/4W		
Δ	R370 R510			RD14NB2E101J RS14KB3D331J	RD 100 J 1/4W FL-PROOF RS 330 J 2W	TEG	
	D1 ,2 D1 ,2 D3 D3 D51 -57			HSS104 1SS133 RD5.1ES(B2) UZ-5.1BSB HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
	D51 -57 D61 -68 D61 -68 D501 D501			1SS133 HSS104 1SS133 RD5.1ES(B2) UZ-5.1BS0	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	TEG TEG	
	IC1 IC2 IC3 ,4 IC5 ,6 IC7 -10			NJU7313AL NJU7312AL NJM4580D-D LC7536R NJM4565L	ANALOGUE IC ANALOGUE IC IC(OP AMP X2) ANALOGUE IC IC(OP AMP X2)		
	IC11 IC12 IC13 IC14 IC15			NJM2177AFB3 NJU7311AL YM7128B NE571N NJM2279D	ANALOGUE IC ANALOGUE IC IC(DIGITAL SURROUND) IC(COMPANDOR) IC(VIDEO IC)		
	IC16 IC17 IC18 IC19 IC19		*	MC14576CP UPC78L05J NJM4565L NJM072BL NJM2082L	ANALOGUE IC IC(VOLTAGE REGULATOR/ +5V) IC(OP AMP X2) IC(OP AMP) IC(OP AMP)		
	IC20-23 IC501 IC502 Q1 -4 Q5 ,6			NJM4565L SAA6579 LC6543H-4D68 2SC2878(B) 2SC1845(F,E)	IC(OP AMP X2) ANALOGUE IC MI-COM IC TRANSISTOR TRANSISTOR	TEG TEG	
	97 ,8 99 99 910 ,11 921 -23			2SK246(Y,GR) 2SA1175(F,E) 2SA933S(Q,R) 2SC1645(F,E) 2SC2878(B)	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	,	
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P: Canada E: Europe M: Other Areas

R: Mexico G: Germany

★ indicates safety critical components.

L: Scandinavia Y: PX (Far East, Hawaii) Y: AAFES (Europe)

K: USA T: England X: Australia P: Canada E: Europe M: Other Areas

R: Mexico G: Germany

L: Scandinavia
V: PX (For East, Hay
Y: AAFES (Europe)
I' WUI FY IFAIANCI

K: USA X: Australia P: Canada

M: Other Areas

R: Mexico C: Germany

indicates safety critical components.

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No, ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No.15

Ref. No.	Address New Parts 位 筐 新		Description 部 品 名 / 規 格	nation	Re· marks 備考
D2 D2 D3 -14 D3 -14 D15 -22		RD2.7ES(B2) UZ-2.7BSB HSS104 1SS133 HSS104A	ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE	KP	3
D15 -22 D15 -23 D15 -23 D15 -24 D15 -24		1SS131 HSS104A 1SS131 HSS104A 1SS131	DIODE DIODE DIODE DIODE DIODE	KP YMTEG YMTEG X	
D25 D25 D28 D28 D34 -36		HSS104A 1SS131 HSS104A 1SS131 HSS104	DIODE DIODE DIODE DIODE	TEG TEG YM YM	
D34 -36 ED1 IC1 IC1 IC2	*	1SS133 11-MT-99GK UPD78044AGF-071 UPD78045AGF-013 S-80740AL	DIODE INDICATOR TUBE MI-COM IC IC(VOLTAGE DETECTOR)	KPYMX TEG	
IC3 Q1 ,2 Q1 ,2 Q3 Q3		NJM4580D-D 2SC1740S(Q,R) 2SC2785(F,E) 2SA1175(F,E) 2SA933S(Q,R)	IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	YM YM	
Q4 ,5 Q4 ,5		2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR		
A1 A1		W02-1153-05 W02-1174-05	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE		
. Coordinavia		LICA B.O. i		1	Щ.

L: Scandinavia Y: PX (Far East, Hawaii) Y: AAFES (Europe)

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P: Canada E: Europe

R: Mexico G: Germany M: Other Areas

⚠ indicates safety critical components.

KR-V7070

SPECIFICATIONS

Audio section

Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω , from 20 Hz to 20,000 Hz with no more than 0.06 % total harmonic distortions. (FTC)

Power output at the Surround operation Front

100 watts per channel minimum RMS, both channels driven at 8 Ω , 1 kHz with no more than 0.7 % total harmonic distortions. (FTC)

Center

100 watts per channel minimum RMS, both channels driven at 8 Ω , 1 kHz with no more than 0.7 % total harmonic distortions. (FTC)

28 watts per channel minimum RMS, both channels driven at 8 Ω , 1 kHz with no more than 0.7 % total harmonic distortions. (FTC)

Total harmonic distortion (1 kHz, 8 Signal to noise ratio (IHF A)	3 Ω) 0.01 % at 50 W
PHONO (MM)	75 dB
CD	
Input sensitivity / impedance	
PHONO (MM)	2.5 mV /47 kΩ
CD, TAPE, VIDEO	
Output level / impedance	
S.W. OUT	2.0 V / 600 Ω
Tone controls	
BASS	± 10 dB (at 100 Hz)
TREBLE	
N.B. circuit	

Video section

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

FM Tuner section

$\begin{array}{cccccccccccccccccccccccccccccccccccc$
AM Tuner section
General
Power consumption
Weight (net)

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